



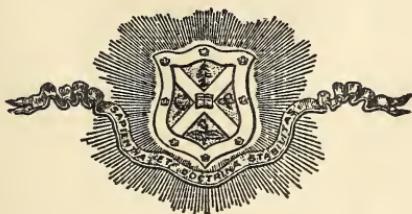


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# Queen's University

KINGSTON, CANADA



INCORPORATED BY ROYAL CHARTER IN 1841

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## CALENDAR OF THE FACULTY OF MEDICINE

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EIGHTY-SECOND SESSION  
1934-35

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The course of study for the degrees of M.D., C.M., comprises six sessions of eight months each.

The attention of prospective matriculants is directed to the statement on page 31 concerning the filing of applications for admission.

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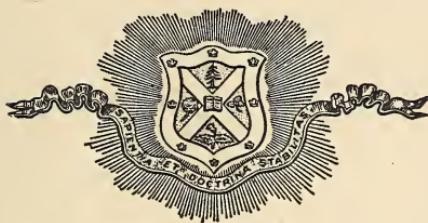
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KINGSTON, ONTARIO

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KINGSTON, CANADA



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## CALENDAR

OF

## THE FACULTY OF MEDICINE

---

EIGHTY-SECOND SESSION

1934-35

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PRINTED FOR THE UNIVERSITY BY THE JACKSON PRESS  
KINGSTON  
1934

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## CALENDAR

1934

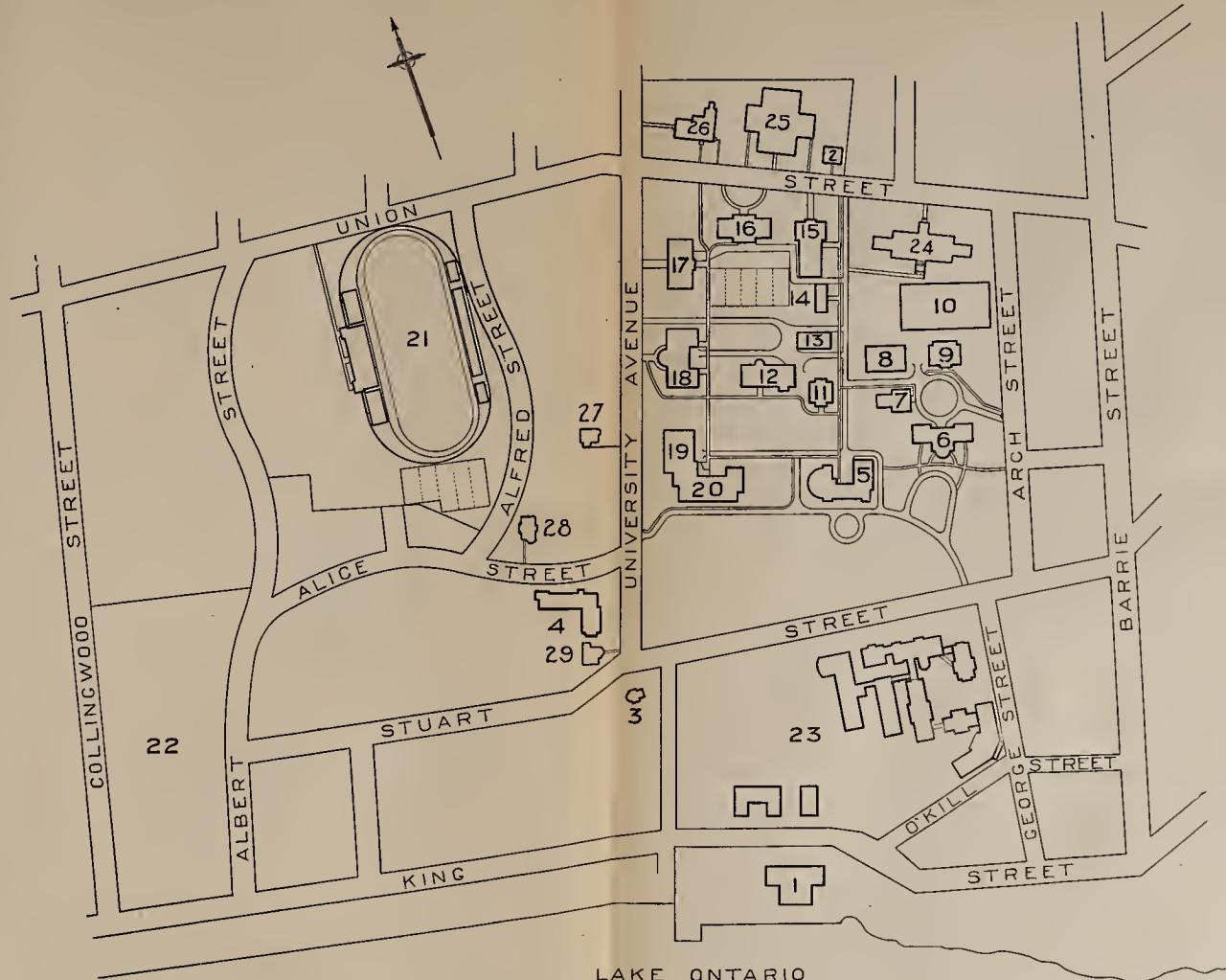
JANUARY							FEBRUARY							MARCH							APRIL						
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21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24	22	23	24	25	26	27	28
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27	28	29	30	31	.....	.....	24	25	26	27	28	29	30	29	30	31	.....	.....	.....	.....	26	27	28	29	30	31	.....

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
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16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
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1935

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
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29	30	.....	.....	.....	.....	.....	27	28	29	30	31	.....	.....	24	25	26	27	28	29	30	29	30	31	.....	.....	.....	.....



#### **PLAN OF QUEEN'S UNIVERSITY GROUNDS**

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- |                             |                            |   |
|-----------------------------|----------------------------|---|
| 1. Central Heating Plant.   | 11. Carruther's Hall.      | 21. Richardson Stadium.                                     |
| 2. Commerce Building.       | 12. Fleming Hall.          | 22. Leonard Field.  |
| 3. Observatory.             | 13. Storehouse.            | 23. Kingston General Hospital<br>and Richardson Laboratory. |
| 4. Ban Righ Hall.           | 14. Mechanical Laboratory. | 24. Miller Hall.  |
| 5. Theological Hall.        | 15. Nicol Hall.            | 25. Gymnasium.  |
| 6. Principal's Residence.   | 16. Gordon Hall.           | 26. Students' Memorial Union.                               |
| 7. Old Medical Building.    | 17. Douglas Library.       | 27. Gordon House.   |
| 8. Hydraulics Laboratory.   | 18. Ontario Hall.          | 28. Goodwin House.  |
| 9. Pathological Laboratory. | 19. Grant Hall.            | 29. Macdonnell House.                                       |
| 10. Jock Harty Arena.       | 20. Kingston Hall.         |   |

## ACADEMIC YEAR

---

### EIGHTY-SECOND SESSION 1934

*Sept. 1, Saturday*—Last day for filing notice (accompanied by fee) of intention to write supplementary examinations.

*Sept. 24, Monday*—Registration begins.

*Sept. 26, Wednesday*—Last day for registration without payment of late registration fee.

*Sept. 27, Thursday*—Classes open at 9 a.m.

*Oct. 6, Saturday*—Last day for registration.

*Dec. 21, Friday*—Christmas holidays begin at noon.  
1935

*Jan. 3, Thursday*—Classes re-open at 9 a.m.

*Mar. 15,*  Last day for payment of graduation fees.

*Apr. 5, Friday*—Lister Day.

*Apr. 18, Thursday*—Easter Recess begins at 5 p.m.

*Apr. 24, Wednesday*—Classes re-open at 9 a.m.

*May 3, Friday*—Classes close at 4 p.m.

*May 4, Saturday*—Final examinations begin.

*May 8, Wednesday*—University Convocation for Conferring Degrees upon graduates of the Faculties of Arts and Science. (This date is provisional).

*May 22, Wednesday*—Medical Convocation for conferring degrees and announcing honours.

TIME TABLE FOR FIRST YEAR

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9		History 2 English 1 Chemistry lect.		History 2 English 1 Chemistry lect.		History 2 English 1 Chemistry lect.
9-10	Physics lect.		Physics lect.		Physics lect.	History 2 English 1 Chemistry lect.
10-11	Economics 2	Physics lab. B	Economics 2	Physics lab. A	Economics 2	
11-12	Biology	Physics lab. B	Biology	Physics lab. A	Biology	
1-2	Chemistry lab.	Biology lab.		Biology lab.	Chemistry lab.	
2-3	Chemistry lab.	Biology lab.		Biology lab.	Chemistry lab.	
3-4	Chemistry lab.	Biology lab.		Biology lab.	Chemistry lab.	

TIME TABLE FOR SECOND YEAR

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10		Histology lect.	Anatomy	Anatomy	Anatomy	Embryology
10-11	Chemistry	Histology lab. A Chemistry lab. B	Physics lab. B Embryology lab. A	Histology lab. B Chemistry lab. A	Chemistry	Physics, lab. A Embryology
11-12	Physics		10-12	10-12	Physics	lab. B, 10-12
1-2	Anatomy	Anatomy		Anatomy	Anatomy	
2-3	Anatomy	Anatomy		Anatomy	Anatomy	
3-4	Anatomy	Anatomy		Anatomy	Anatomy	
4-5	Psychology		Psychology			

**TIME TABLE FOR THIRD YEAR**

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Anatomy lect.	Anatomy	Bacteriology	Physiology	Bacteriology	Anatomy
10-11	Physiology	Anatomy	Anatomy 10-12 B	Anatomy 10-12 A	Physiology	Anatomy
11-12	Physiological Chemistry	Anatomy	Bacteriology 10-12 A	Bacteriology 10-12 B	Physiological Chemistry	Anatomy
1-2	Physiology 1-4 B	Bacteriology 1-3 B	Anatomy	Physiology 1-4 A	Bacteriology 1-3 A	
2-3	Physiological Chemistry 1-4 A	Physiological Chemistry 1-3 A	Anatomy	Physiological Chemistry 1-4 B	Physiological Chemistry 1-3 B	
3-4		Histology	Anatomy			

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Pathology	Clin. Medicine and Surgery	Minor Surgery	Pathology 9-11	Pathological Chemistry
10-11	Surgery	Clin. Microscopy	Clin. Surgery	Clin. Medicine		Surface Anat.
11-12	Pharmacology	Pharmacology	Clin. Medicine	Pharmacology	Pharmacology	
1-2	Bacteriology A 1-3	Pharmacology A 1-4	App. Anatomy		Pharmacology B 1-4	
2-3		Clin. Microscopy B	Clin. Surgery	Bacteriology A 1-3	Clin. Microscopy A	
3-4	Bacteriology B 3-5	1-4		Bacteriology B 3-5	Bacteriology B 1-4	
4-5		Phys. Diag.			Phys. Diag.	

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Surgery	Eye, Far, Nose and Throat Medicine	Eye, Ear, Nose and Throat Surgery	Surgery	App. Anatomy	Medicine Conference
10-11	Surgery	Medicine	Medicine	Medicine	Medicine	Medicine
11-12	Pathology	Clinical Pediatrics	Clinical Pediatrics	Obstetrics (Rich. Lab. Bldg.)	Surgery	Obstetrics (Rich. Lab. Bldg.)
1-2	Pediatrics	X-Ray	Pathology	Prac. Pathology	Prac. Pathology	X-Ray and Phys. Therapy. 2-4
2-3			Therapeutics	Prac. Pathology		
3-4	Rockwood	App. Anatomy	Gynaecology	G. U. Clinic 4.30		
4-5	Gynaecology					

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Hist. Medicine	Eye, Ear, Nose and Throat Clinical Surgery	Gynaecology Clinical Medicine	Eye, Ear, Nose and Throat Clinical Surgery	App. Anatomy Clinical Surgery	Therapeutics Clinical Medicine
10-11	Clinical Medicine	Clinical Medicine	Clinical Medicine	Clinical Medicine	Clinical Medicine	Conference
11-12	Clinical Medicine			Jurisprudence (Rockwood)	Clinical Surgery	Clinical Surgery
1-2	Obstetrics (Rich. Lab. Bldg.)	Obstetrics (Rich. Lab. Bldg.)	Obstetrics (Rich. Lab. Bldg.)	Prev. Med. 1st term	Psychiatry	Clinical Medicine 2-4
2-3	Prev. Med. A 2-4. 1st term	Pathology A	Pathology A	Prev. Med. B 3-5, 1st term		
3-4	X-Ray B. 2-4. 2nd term		Surgery 2nd term	Pathology B 3-5, 2nd term	Clinical Medicine	Clinical Medicine and Gynaecology
4-5	Prev. Med.		X-Ray. K.G.H. 1st term	G-Ray A 3-5, 2nd term	Gynaecology	Clinical Surgery K. P. 2-4
			App. Anatomy			

## SUPPLEMENTAL EXAMINATIONS

September, 1934

These examinations will be held during the week beginning Monday, September 17. The precise dates will be arranged later.

---

## MEDICAL EXAMINATIONS

May, 1935

### *Written Examinations*

	9 a.m.	2 p.m.
<i>Saturday, May 4th</i>	Psychology (2nd)	
	Obstetrics (5th)	Anatomy (3rd)
<i>Monday, May 6th</i>	General Biology (1st)	Pathology (4th)
	Chemistry (2nd)	Therapeutics (5th)
	Medicine (6th)	Physics (2nd)
<i>Tuesday, May 7th</i>	Medicine (5th)	Surgery (4th)
	Obstetrics (6th)	
<i>Wednesday, May 8th</i>	Chemistry (1st)	CONVOCATION
	Physiology (3rd)	
	Gynaecology (6th)	Bacteriology (3rd)
<i>Thursday, May 9th</i>	Histology (2nd)	Gynaecology (5th)
	Applied Anatomy (4th)	Surgery (6th)
<i>Friday, May 10th</i>	Eye, Ear, Nose and Throat (5th)	Embryology (2nd)
	Physics (1st)	Medicine (4th)
<i>Saturday, May 11th</i>	Chemistry (3rd)	Pathological Chemistry
	Pathology (5th)	(4th)
	Public Health and Prev. Medicine (6th)	
<i>Monday, May 13th</i>	Anatomy (2nd)	Pharmacology (4th)
	Histology (3rd)	
	Surgery (5th)	
<i>Tuesday, May 14th</i>	Pediatrics (5th)	Bacteriology (4th)
<i>Wednesday, May 15th</i>	Applied Anatomy (5th)	

Clinical, oral and practical examinations are arranged by the Professors concerned.

## HISTORY OF THE UNIVERSITY

---

Queen's University owes its origin to the desire of the Synod of the Presbyterian Church in Canada in connection with the Church of Scotland for a ministry trained within the country. As early as 1832 the Provincial Government had been petitioned "to endow without delay an institution, or professorships, for the education and training of young men for the ministry in connection with the Synod." This and other representations failing of their object, steps were taken by the Synod to found a college at Kingston on the lines of the Scottish National Universities. On October 16th, 1841, a Royal Charter was issued by Her Majesty Queen Victoria for the establishment of Queen's College, Kingston, and the first classes were opened in March, 1842, with the Rev. Dr. Liddell as Principal. Funds were provided in part by grants from the Presbyterian Church in Scotland, and from the Canadian Government, and in part by liberal subscriptions from the friends of the young and growing University. In 1867-68 the withdrawal of the Provincial grant, and the failure of the Commercial Bank, which swept away the greater part of the endowment, almost brought financial disaster. But the crisis was met by the determination of Principal Snodgrass and of other self-denying workers chief among whom was Professor Mackerras. The country was canvassed for subscriptions, and as a result of the widespread interest aroused, \$113,000 was added to the endowment.

In 1877 Principal Snodgrass was succeeded by the Rev. G. M. Grant who for a quarter of a century built with brilliant success upon the foundation laid by his predecessors. Under his guidance the University gained rapidly in size and prestige. In 1887, as the result of an effort in commemoration of the Queen's Jubilee, \$250,000 was raised, resulting in further extension, and in the establishment of new professorships.

Principal Grant died in 1902, and was succeeded in the following year by the Very Rev. D. M. Gordon. In 1916, owing to ill-health, Principal Gordon resigned his position but continued in office until the autumn of 1917, when the Rev. R. Bruce Taylor was appointed as his successor. In 1930 Principal Taylor resigned his position and went abroad to live, and Dr. J. C. Connell was appointed Acting-Principal until a new Principal should be found. In October, W. Hamilton Fyfe, Head of Christ's Hospital, England, and formerly Fellow of Merton College, Oxford, was installed as Principal.

In 1854 the Medical Faculty of Queen's was established. It was reorganized in 1865 as the Royal College of Physicians and Surgeons in affiliation with the University, but in 1891 the original status was resumed.

Queen's led the way in co-education. As early as 1870 special classes in English and other subjects were formed for women, but courses leading to a degree were not thrown open to them until 1878-79. In 1880 co-education was extended to the medical course, and in 1883 a separate Women's Medical College was opened and affiliated with Queen's. It was closed, however, in 1894, as similar facilities were offered in Toronto and elsewhere.

In 1907 the Ontario Government established at Queen's a Faculty of Education for the purpose of providing professional training for teachers in the secondary schools of the Province. In 1920, however, the work of the Faculty was discontinued because of the decision of the Government to extend the scope of the Normal Schools and to create in Toronto the Ontario College for Teachers.

The School of Mining was founded in 1893 under an Ontario charter and for several sessions all its departments were housed in Carruthers Hall, erected in 1889. The Provincial Legislature in 1900 provided Ontario Hall for the Departments of Physics, Geology and Mineralogy, and Fleming Hall for the Departments of Civil, Mechanical, and Electrical Engineering. In 1911 the Provincial Government erected Gordon Hall, which is entirely used by the Department of Chemistry, and, through the generosity of the late Professor Nicol and other graduates, Nicol Hall was built to provide class rooms and laboratories for the Department of Mining and Metallurgy. The School of Mining was amalgamated with the University in 1916 and now constitutes its Faculty of Applied Science.

The endowment of the University is at present about \$2,450,000, of which about \$900,000 was obtained in 1918-19. To this sum the late Chancellor Dr. Douglas contributed \$500,000 and the Carnegie Corporation \$250,000. In recent years the Province of Ontario has steadily increased its grants, and the annual income of the University, derived from all sources, is now over \$500,000.

There is now on the University Campus a stately group of buildings, comprising the Old Arts Building (now the Theological Building), Carruthers Hall (Civil Engineering); Kingston Hall (Arts) the gift of the city of Kingston; Grant Hall, erected by the students to the memory of the late Principal Grant; Ontario Hall (Physics); Fleming Hall (Mechanical and Electrical Engineering); Gordon Hall (Chemistry);

Nicol Hall (Metallurgy); the Medical Building (Anatomy, Pharmacology, and Preventive Medicine); the Medical Laboratories Building; the New Gymnasium; Miller Hall (Geology and Mineralogy), named in memory of the late Dr. W. G. Miller; the Observatory; and the Douglas Memorial Library.

Queen's University, though founded by a Church, was dedicated to the nation. As its constituency expanded, its constitution was gradually broadened until finally in 1912, as a result of an amicable arrangement between the Presbyterian Church and the trustees of the University, an act was passed by the Dominion Parliament removing the last vestige of denominational control. The registration of students has grown from 665 in 1900 to over 3,800 in the present session, and Queen's has become nation-wide in its work and influence.

## GOVERNMENT AND ADMINISTRATION

---

The administration of the University is vested in the Board of Trustees, the University Council, the Senate, and the Faculty Boards.

### THE BOARD OF TRUSTEES

The Board of Trustees consists of the Chancellor, the Principal, and the Rector; one representative from each affiliated college; representatives as provided for by the Statutes from the University Council, the Benefactors, the Graduates; and members elected by the Board of Trustees.

The functions of the Board of Trustees are to manage the finances, to possess and care for the property, to procure legislation, to appoint instructors and other officers, and in general to attend to such external matters as do not relate directly to instruction.

### THE UNIVERSITY COUNCIL

The University Council consists of the Chancellor, the Trustees, the members of the Senate, and an equal number of members elected by the Graduates from their own numbers.

The annual meeting of the Council is held on the Tuesday immediately preceding the Spring Convocation.

The functions of the Council are:

- (1) To elect the Chancellor, except when two or more candidates are nominated, in which case the election is by registered graduates.
- (2) To elect six trustees, two of whom shall retire annually.
- (3) To make by-laws governing the election of the Rector by the registered students, of seven trustees by the benefactors, of six trustees by the University Council, and of six trustees by the graduates.
- (4) To discuss all questions relating to the University and its welfare.
- (5) To make representation of its views to the Senate or the Board of Trustees.
- (6) To decide on proposals for affiliation.

- (7) To arrange all matters pertaining to (a) its own meetings and business, (b) the meetings and proceedings of Convocation, (c) the installation of the Chancellor, (d) the fees for memberships, registration and voting.

### THE SENATE

The Senate consists of:

- The Principal.
- Vice-Principal.
- The Principal of Queen's Theological College.
- The Dean of the Faculty of Arts.
- The Dean of the Faculty of Medicine.
- The Dean of the Faculty of Applied Science.
- Three Professors elected by the Faculty of Arts.
- Three Professors elected by the Faculty of Medicine.
- Three Professors elected by the Faculty of Applied Science.
- Two Professors elected by the Faculty of Queen's Theological College.

The functions of the Senate are:

- (1) To determine all matters of an academic character which concern the University as a whole.
- (2) To consider and determine all courses of study leading to a degree, including conditions of Matriculation, on recommendation of the respective Faculty Boards; but the Senate shall not embody any changes without having previously presented these to the Faculty.
- (3) To recommend to the Board of Trustees the establishment of any additional Faculty, Department, Chair or Course of Instruction in the University.
- (4) To be the medium of communication between the Alma Mater Society and the Governing Boards.
- (5) To determine all regulations regarding the social functions of the students within the University, and regarding the University Library and University Reading Rooms.
- (6) To publish the University Calendars.
- (7) To conduct examinations.
- (8) To grant Degrees.
- (9) To award University Scholarships, Medals, and Prizes.

(10) To enforce the Statutes, Rules, and Ordinances of the University.

(11) To make such recommendations to the Governing Boards as may be deemed expedient for promoting the interests of the University.

### THE FACULTY BOARD

The Dean, Professors, Associate Professors, and Assistant Professors, have power to meet as a separate board, and to administer the affairs of the Faculty under such regulations as the Board of Trustees may prescribe. The Principal and Vice-Principal are members of the Faculty Board, of which the Principal is ex-officio president.

The functions of the Faculty Board is:

(1) To recommend to the Senate courses of study leading to a degree, and the conditions of admission.

(2) To decide upon applications for admission or for change of course, subject to the regulations of the Senate.

(3) To submit to the Senate names for both ordinary and honorary degrees.

(4) To arrange the time-table for classes and to edit the Faculty Calendar, subject to the approval of the Senate.

(5) To control registration, and determine the amount of fees and manner of payment, subject to the regulations of the Senate.

(6) To deal with class failures.

(7) To exercise academic supervision over students.

(8) To make such recommendations to the Senate as may be deemed expedient for promoting the efficiency of the University.

(9) To award Faculty Scholarships, Medals, and Prizes.

(10) To appoint such sessional assistants, fellows, tutors, and demonstrators as shall be needed to give instruction in the subjects taught by the Faculty.

(11) To pass such regulations and by-laws as may be necessary for the exercise of the functions of the Faculty.

## OFFICERS OF ADMINISTRATION

---

### CHANCELLOR

JAMES RICHARDSON, B.A., LL.D.

### PRINCIPAL AND VICE-CHANCELLOR

W. HAMILTON FYFE, M.A., LL.D., F.R.S.C

### RECTOR

OSCAR D. SKELTON, M.A., Ph.D.

### VICE-PRINCIPAL AND TREASURER

W. E. MCNEILL, M.A., Ph.D.

### REGISTRAR

JEAN ROYCE, B.A.

---

## THE BOARD OF TRUSTEES

### *Chairman*

J. M. MACDONNELL, M.A.

### *Secretary*

W. E. MCNEILL, M.A., Ph.D.

### *Ex-Officio Members*

JAMES RICHARDSON, B.A., LL.D.	Chancellor
W. HAMILTON FYFE, M.A., LL.D., F.R.S.C.	Principal
O. D. SKELTON, M.A., Ph.D.	Rector

### *Elective Members*

#### *Retire 1934*

J. MACKINTOSH BELL, M.A., Ph.D., LL.D. <sup>7</sup>	Almonte
REV. G. A. BROWN, D.D. <sup>5</sup>	Kingston
W. L. GRANT, M.A., LL.D. <sup>2</sup>	Toronto
E. R. PEACOCK, M.A. <sup>6</sup>	London, Eng.
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J. C. MACFARLANE, ESQ. <sup>1</sup>	Toronto
J. M. FARRELL, B.A., K.C. <sup>3</sup>	Kingston
CHARLOTTE E. WHITTON, M.A., C.B.E. <sup>3</sup>	Ottawa
F. D. REID, B.Sc. <sup>4</sup>	Cobalt

*Retire 1935*

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G. F. HENDERSON, B.A., K.C. <sup>2</sup>	Ottawa
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V. K. GREER, M.A. <sup>3</sup>	Toronto
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*Retire 1936*

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D. H. LAIRD, M.A., K.C. <sup>1</sup>	Winnipeg, Man.

*Retire 1937*

WILLIAM CURLE, B.A., M.A., K.C. <sup>6</sup>	Montreal, P.Q.
J. G. DWYER, M.D., LL.D. <sup>6</sup>	New York
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CHARLOTTE E. WHITTON, M.A., C.B.E. <sup>3</sup>	Ottawa

*Retire 1938*

W. L. GRANT, M.A., LL.D.	Toronto
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<sup>1</sup>Elected by the University Council for three years.

<sup>2</sup>Elected by the Benefactors for four years.

<sup>3</sup>Elected by the Graduates for three years.

<sup>4</sup>Elected by the Board of Trustees to represent the Faculty of Applied Science for three years.

<sup>5</sup>Elected by the Faculty of Queen's Theological College for one year.

<sup>6</sup>Elected by the Board of Trustees for four years.

<sup>7</sup>Elected by Benefactors to represent the Faculty of Applied Science for three years.

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### *Retire 1935*

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W. R. JAFFREY, M.B. ....	Hamilton
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*Retire 1937*

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*Retire 1938*

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*Retire 1939*

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*Retire 1940*

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H. L. TRACY, B.A., Ph.D.	Retires 1936
J. A. GRAY, O.B.E., D.Sc., F.R.S.C., F.R.S.	Retires 1937

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J. E. HAWLEY, M.A., Ph.D.	Retires 1936
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J. H. ORR, M.D.	Retires 1935
G. B. REED, B.Sc., M.D.	Retires 1935

#### *The Faculty of Queen's Theological College*

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REV. J. R. WATTS, B.A., D.D.	Retires 1936

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*Emeritus Professor of Physiology*

Queen's Crescent

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*Assistant Professor of Surgery in charge of Urology*

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265 King Street
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*Assistant Professor of Surgery and Demonstrator in Anatomy*  
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*Assistant Professor of Obstetrics and Fellow in Anatomy*,  
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- J. H. ORR, M.D., C.M., F.R.C.P.(C.),  
*Assistant Professor of Bacteriology*  
529 Johnson Street
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*Lecturer in Surgery and Clinical Assistant in Anaesthetics*  
574 Union Street
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*Lecturer in Psychology and Clinical Assistant in Psychiatry*  
Ontario Hospital
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*Lecturer in Preventive Medicine, Clinical Assistant in Medicine and Demonstrator in Anatomy*  
230 Johnson Street

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	<i>Lecturer in English</i>
BRUCE H. HOPKINS, M.B. (Toronto)	Brock Street Apts.
	<i>Lecturer in Medicine</i>
	95 King Street East
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	<i>Lecturer in Biology</i>
	37 Traymore Avenue
P. M. MACDONNELL, M.A., M.D., C.M.	
	<i>Lecturer in Medical Jurisprudence, Clinical Assistant in Medicine, and Historian</i>
	Cor. Johnson and Sydenham Sts.
C. W. BENNETT, M.D., C.M.,	
	<i>Clinical Assistant in Medicine</i>
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ROBT. SERIGHT,	
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H. S. ANGROVE, M.D., C.M.

*Fellow in Anatomy*

180 Bagot Street

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Earl Street

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*Fellow in Surgery*

78 Barrie Street

A. E. HARBESON, B.A., M.D., C.M.,

*Demonstrator in Anatomy*

142 Wellington Street.

GORDON MYLKS, B.A., M.D., C.M.,

*Assistant Curator of Pathological Museum*

122 Wellington Street

---

MISS JESSIE GORDON,

*Assistant Secretary*

240 Alfred Street

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### Director of Summer School

PROFESSOR MACCLEMENT

### Director of Extension Work

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Secretary of the General Alumni Association and Manager of the Employment Bureau

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### Medical Officer

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### Superintendent of Buildings

JAMES BEWS

Secretary-Treasurer, Athletic Board of Control

CHAS. C. HICKS

## EQUIPMENT AND SPECIAL FACILITIES

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### THE MEDICAL BUILDINGS

The Old Medical Building, erected in 1858, was destroyed by fire in August, 1924. It has now been replaced by a fire-proof structure, which houses the departments of Anatomy, Pharmacology and Preventive Medicine.

In the Medical Laboratories building are conducted the courses in Bacteriology, Embryology, Histology, and Physiology.

The department of Pathology is housed in the new Richardson Laboratory, attached to the Clinic building, General Hospital.

### THE LABORATORIES

#### THE BIOLOGICAL LABORATORIES

The classes in the Department of Biology are conducted in new quarters in the Old Arts building. The laboratories are equipped with the supplies and equipment necessary for the study of plant and animal life and are provided with a separate locker for each student.

The laboratories in Bacteriology are situated on the third floor of the Medical Laboratories building; that for Experimental Physiology occupies the west side of the second floor of the building and has all appliances necessary for 50 students working at one time. The work in Histology and Embryology is conducted on the east side of this floor, where there is accommodation for 120 students.

#### THE CHEMICAL LABORATORIES

The Chemical Laboratories are in Gordon Hall.

On the fourth floor are the laboratories of Medical Organic, Biochemistry, and Water Analysis. On the third floor are two laboratories for General Chemistry, and a laboratory for Electrochemistry and Colloid Chemistry. On the second or main floor are two laboratories for Quantitative Analysis, two for Organic Chemistry, and one for Industrial Chemistry. On the first or basement floor are three laboratories for Qualitative Analysis, and two for Physical Chemistry. Besides these there is a number of small separate laboratories for research work.

#### THE PHYSICAL LABORATORIES

The Physics Laboratories occupy the major part of Ontario Hall. The basement contains the large elementary laboratory, the liquid air room, numerous research laboratories and the research workshop. The main floor is given over to undergraduate lecture and laboratory rooms. The second floor has two large lecture rooms, laboratory room for advanced undergraduate classes and for research. The attic is used for workshop and storage purposes.

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#### THE HOSPITALS

The General Hospital affords the main source of clinical teaching, its staff being nominated by the Medical Faculty. The Douglas Clinical Building completed in the autumn of 1925, houses the Public Wards, Operating Theatres, X-ray and Electro-therapeutic Departments, and the various out-patient departments. The Nickle Wing has been remodelled for use of the Obstetric Department and is now occupied.

The Isolation Hospital, erected on the General Hospital grounds, and under its administration, will accommodate 64 patients. This Hospital affords full opportunity for clinical training in infectious diseases.

The Hotel Dieu Hospital throws open its wards for clinical teaching. This Hospital has 200 beds and is thoroughly equipped.

The Ontario Hospital for the Insane is open for the instruction of students. The staff of this Hospital are responsible for the teaching in Mental Diseases. Its large population affords in addition much material for medical, surgical, gynaecological and pathological teaching.

The Mowat Sanatorium for Tuberculosis having been sold to the Ontario Government, is incorporated with the Ontario Hospital for the Insane. The Doran Building of the General Hospital has been opened as a unit for the care of tuberculosis and will afford ample opportunity to the students for clinical teaching in pulmonary diseases, and for the study, prevention and treatment of tuberculosis.

Through the courtesy of the Federal Department of Justice, and the co-operation of the Prison Surgeon, weekly clinics are permitted at the Penitentiary Hospital in Medicine and Surgery.

#### ONTARIO INSTITUTE OF RADIOTHERAPY, KINGSTON

The Ontario Institute of Radiotherapy of Kingston for the diagnosis and treatment of cancer and allied diseases, is situated in the Kingston General Hospital. A special floor of twenty beds is available

for the accommodation of in-patients. Ward patients are at the disposal of the consulting and attending staff of the institute for teaching purposes. Ward out-patients are also available as clinical material. Students will be familiarized with the diagnosis and treatment of all types of cancer, and the necessity for early diagnosis and early adequate treatment will be demonstrated.

The consulting staff of the institute consists of the heads of the departments of Gynaecology, Medicine, Ophthalmology, Otolaryngology, Pathology, Physics, Radiology, Surgery and Urology of the Medical Faculty. Dr. J. A. Gray, F.R.S., of the Faculty of Science, acts as consulting physicist.

The division of radiology is equipped with latest type of X-ray units for both superficial and deep therapy, and with modern radiographic machines.

The department has 335 milligrammes of radium for treatment purposes and has also available a supply of radium emanation as needed.

The Institute is a part of the effort of the Ontario Government to combat cancer.

#### PATHOLOGICAL MUSEUM

The Pathological Museum contains numerous valuable specimens collected both from hospital and private practice. A catalogue has been compiled and is accessible for use in study of the specimens. Contributions of morbid specimens will be gladly received from practitioners.

The Museum has recently been considerably enlarged and rearranged in accordance with the most modern methods. It now contains nearly 2,000 specimens, the majority of which are mounted by modern methods for preserving colour.

The Museum is houses in the Richardson Laboratory at the new Hospital Building.

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#### LIBRARY

The Douglas Library building provides one large reading room, three smaller ones, a number of conference rooms, exhibition room and offices for the library staff.

In the main reading room will be found a collection of some 5,000 volumes of general reference works on open shelves. The main collection, shelved on five tiers of book-stacks, occupies the centre of the building under the main reading room. The general library now includes about 150,000 volumes as well as many original manuscripts and prints.

The system of classification used is that of the Library of Congress.

Seven hundred and fifty journals and other serials are currently received.

In addition to the general library, there are departmental libraries for physics; chemistry; mining and metallurgy; geology and mineralogy; civil, mechanical, and electrical engineering; clinical medicine; ophthalmology; pathology.

The Lorne Pierce Collection of Canadian Literature is very rich in first editions, original manuscripts and rare Canadiana.

The Shortt-Haydon Collection of portraits and views relating to Canada is one of the finest collections of its kind in existence.

The library of the Medical Faculty is now located in the Old Arts Building, and has its own reading room. It is administered by the staff of the general library.

The John Franklin Kidd Endowment provides for an annual fund for the purchase of books in the department of Surgery. These volumes are marked by a special book plate and form a valuable section of the Library gradually increasing in importance.

## GENERAL INFORMATION

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### ADMISSION OF STUDENTS

The number of students admitted to the classes of the first year is limited and prospective matriculants should make formal application for admission on forms obtainable from the Secretary of the Faculty. These applications should be in the hands of the Secretary not later than September 1st. Applicants will be notified of the decision of the Committee on Admissions as soon as possible after that date. Only under special circumstances will applications be considered *after* September 1st.

Men alone are admitted.

Matriculation requirements must be completed before admission.

All Ontario candidates for admission must satisfy the requirements for registration with the Ontario College of Physicians and Surgeons, viz., Pass Matriculation in the following six subjects:

Latin (Authors and Composition).

English (Literature and Composition).

History (Canadian and Ancient).

Mathematics (Algebra and Geometry).

and any two of the following:—

Greek (Authors and Composition).

German (Authors and Composition).

French (Authors and Composition).

{ Spanish (Authors and Composition),  
or,

{ Italian (Authors and Composition).

{ Experimental Science (Physics and Chemistry),  
or,

{ Agriculture (Part I and Part II).

The Faculty of Medicine limits first year registration to fifty students. A selection from applicants for admission will be made on the basis of their qualifications. A few may be accepted on Pass Matriculation standing, as defined above, if by reason of maturity, previous experience, or high standing, they are regarded as qualified to undertake the work of the first year, but ordinarily a candidate will be required to present not only complete Pass Matriculation but in addition Honour Matriculation in at least three subjects:

English (Literature and Composition).

Mathematics (Algebra, Geometry, Trigonometry).  
and one of

Latin (Authors and Composition).

Greek (Authors and Composition).

French (Authors and Composition).

German (Authors and Composition).

Physics or Chemistry or Biology may be substituted for  
Trigonometry.

It is probable that beginning with the Session 1935-36 the entrance requirements will consist of complete Junior Matriculation and in addition four subjects of Honour Matriculation.

Candidates from Provinces of Canada other than Ontario must present certificates of a standard equivalent to that required for students from the Province of Ontario.

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensure is vested in a Licensing Body which has its special laws and requirements. In many cases a special standard of general education is insisted upon before beginning the study of medicine. In order that disappointment and loss of time may be avoided, the University requires students to register with the licensing body of their home Province or State before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards (see pages 48, 49).

Prospective matriculants must submit with their applications for admission the certificates on which they claim standing.

Teachers' examinations are accepted *pro tanto* in lieu of the Matriculation Examinations in so far as the subjects correspond.

Certificates of Matriculation in any University may be accepted *pro tanto* at the discretion of the Faculty.

A candidate, who in the Faculty of Arts has obtained credit for Physics 1, Biology 1 and 2, Chemistry 1 and 2, will be admitted to the second year of Medicine. The course in Medicine may thus be completed in five years instead of six.

## MATRICULATION EXAMINATIONS

The Matriculation examinations are conducted for the Universities of Ontario by the University Matriculation Board. They are held in June of each year at the Universities and at each High School and Collegiate Institute in Ontario and at such other centres as may be approved by the Board. If application is made to the University Senate, the examination may be held at suitable centres outside of Ontario.

The Secretary of the University Matriculation Board, J. P. Cowles, Esq., Parliament Buildings, Toronto will furnish, on request, the official circular which contains full information concerning dates, fees, standards, curriculum, and examination centres. The University also publishes an announcement containing all particulars regarding Matriculation, which may be obtained from the Registrar of the University.

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## REGISTRATION

Students not registering *in person* on or before September 27th, must pay the fee for late registration and no student will be allowed to register in the Faculty of Medicine after the 7th of October.

On first registration each student is required to furnish an unmounted finished photograph (2 inches by 3 inches) of head and shoulders only.

At the time of registration, students who claim exemptions must present to the Secretary certificates giving an exact statement of the exemptions to which they are entitled.

A student who has attended the course of instruction in any year will be required to complete the examinations of that year before he will be permitted to register in the succeeding year.

No student may repeat more than one year during his course without the permission of the Faculty.

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## CURRICULUM

Candidates for the degrees of M.D., C.M., must complete a period of six years' study, comprising six sessions of eight months each.

Regular attendance on full courses of instruction is required in the following subjects of study:—

1st Year:—General Biology, Chemistry, Physics, History or Economics or English.

2nd Year:—Anatomy, Organic Chemistry, Histology, Embryology, Physics, Psychology.

3rd Year:—Anatomy, Physiology, Histology, Physiological Chemistry, Bacteriology.

4th Year:—Pathology, Pharmacology, Bacteriology, Applied Anatomy, Surgery, Medicine, Clinical Microscopy, Pathological Chemistry.

5th Year:—Surgery, Medicine (including Therapeutics), Obstetrics, Gynaecology, Pathology, Eye, Ear, Nose and Throat, Applied Anatomy, Pediatrics.

6th Year:—Surgery, Medicine, Obstetrics, Gynaecology, Serology and Pathology, Preventive Medicine, Psychiatry, Jurisprudence, Applied Anatomy, History of Medicine, Eye, Ear, Nose and Throat, Pediatrics.

Certificates of attendance on lectures may be accepted from incorporated medical schools in the British Dominions and others recognized by British Universities and licensing bodies. Other certificates of attendance on lectures and examinations may be accepted at the discretion of the Faculty.

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The combined B.A., M.D., Course has been discontinued, but students who have already started will be allowed to finish.

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## EXAMINATIONS AND GRADUATION

Examinations are held in all subjects at the end of the fall term.

Students in the first three years must attend a minimum of 90 per cent. and students in other years a minimum of 80 per cent., of the lectures and laboratory exercises in the subjects for which they are registered to be admitted to the final examinations in those subjects.

A minimum of sixty per cent. in each subject is required for a pass.

The Faculty may at any time either during the term or after the close of the term, require any student to withdraw from the Faculty

of Medicine whose conduct, attendance, work or progress is deemed unsatisfactory.

Candidates who pass in a majority of the subjects required at the annual examinations at the end of the First, Second and Third years and in all but three subjects at the end of the Fourth, Fifth and Sixth years, may present themselves at the supplemental examinations next ensuing in the subjects in which they fail. On passing such examinations they will be allowed their year.

A candidate will not be admitted to an examination unless he has paid all University fees.

### EXAMINATIONS

Examinations are required at the end of every session as follows:

At the end of the first session:—

General Biology, Chemistry, Physics, History or Economics or English.

At the end of the second session:—

Anatomy, Organic Chemistry, Physics, Histology, Embryology, Psychology.

At the end of the third session:—

Anatomy, Physiology, Histology, Physiological Chemistry, Bacteriology.

At the end of the fourth session:—

Pathology, Pharmacology (including Materia Medica), Applied Anatomy, Surgery, Medicine, Bacteriology, Pathological Chemistry.

At the end of the fifth session:—

Surgery, Medicine, Therapeutics, Obstetrics, Gynaecology, Pathology, Pediatrics, Applied Anatomy, Eye, Ear, Nose and Throat.

At the end of the sixth session:—

Surgery, Medicine, Gynaecology, Obstetrics, Serology and Pathology, Preventive Medicine, Jurisprudence, Psychiatry, Applied Anatomy, Eye, Ear, Nose and Throat, Pediatrics.

### EQUIVALENT EXAMINATIONS

The following courses and examinations in Arts will be accepted in Medicine:—

ARTS	MEDICINE
1. Courses and examinations in Biology 1 and 2.	1. Course and examination in first year General Biology.
2. Courses and examinations in General Chemistry and Qualitative Analysis.	2. Course and examination in first year Chemistry.
3. Course and examination in Organic Chemistry.	3. Course and examination in second year Chemistry.
4. Course and examination in Physics 1 in Arts or Science.	4. Course and examination in first year Physics.
5. Course and examination in Physics 2.	5. Attendance on Lectures until Christmas, in second year Physics.

The courses in Chemistry and Physics must be taken in the University; the classes will not be allowed to holders of certificates of Honour Matriculation.

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### FEES

Sessional Fee (including Registration, Tuition, Examinations, Library, Laboratory Fees, Clinical Hospital Facilities, Health Insurance and Student Interests):

The fee for athletics, included in student interests, gives admission to all home games except play-offs.

First Year:

One payment . . . . .	\$ 166.00
First instalment . . . . .	\$ 98.00
Second instalment (on or before Jan. 6th) . . . . .	73.00

Second and Third Years:

One payment . . . . .	176.00
First instalment . . . . .	\$103.00
Second instalment (on or before Jan. 6th) . . . . .	78.00

Fourth, Fifth and Sixth Years:

One payment . . . . .	201.00
First instalment . . . . .	\$115.50
Second instalment (on or before Jan. 6th) . . . . .	90.50

Sessional Laboratory Deposit (each year) . . . . . 10.00

Special Fees, payable when incurred:

Late Registration .....	3.00
Supplemental Fee (in one or more subjects) .....	10.00
Ad eundem statum .....	10.00
Degrees of Doctor of Medicine and Master of Surgery .	30.00
Degree of Doctor of Science .....	50.00
Diploma of Public Health .....	20.00
Extra Fee for Degree in Absentia .....	10.00

All Fees and deposits are payable to the Treasurer of the University.

Fees may be paid in two instalments, in which case an additional \$5.00 will be charged. At least half of the sessional fee and the laboratory deposit must be paid at the time of registration, the balance to be paid on or before January 5th, 1935. No student will be admitted to classes until the above conditions have been complied with, nor will he be permitted to continue the work of the second term until the fees have been paid in full.

The graduation fee is payable not later than March 15th. An extra fee of \$3.00 is charged after that date.

#### BOARD AND ROOM

During the session 1933-1934 students have paid from \$5.00 to \$6.00 a week for board, and \$2.50 to \$3.00 for room, so that satisfactory board and lodging may be obtained at from \$7.50 to \$9.00 per week. Lists of boarding and lodging houses may be obtained from the Secretary of the Faculty.

#### MICROSCOPES

Every student entering the Faculty of Medicine will be required to have at the commencement of his studies, a first-class microscope of approved design. Such an instrument is an essential part of the equipment of a practitioner in medicine.

The Faculty of Medicine have made arrangements whereby such instruments can be purchased at a low price, either for cash at cost or by three equal annual payments which include carrying charges. In the latter case the microscope is retained by the University during vacations until payment is completed.

Further information regarding the microscopes and methods of payment may be obtained from the Secretary of the Faculty of Medicine.

## PHYSICAL WELFARE OF STUDENTS

The sessional fee includes a contribution towards a health insurance fund which the University will use to provide medical care for those who are ill.

Each first year student is given a physical examination by the University physician, and corrective exercises in the Gymnasium are prescribed when they are needed.

All students admitted must produce evidence of successful vaccination.

Gymnasium work for two hours each week is required of all first year students except those excused by the Medical Adviser. Voluntary classes are offered other students, and arrangements can readily be made for daily exercise in the building. The gymnasium, built during the summer of 1930, is a modern stone building 60 x 105 feet and is equipped with lockers, shower-baths, a swimming pool, running track, and all apparatus for physical training.

## ATHLETICS

As a member of the Canadian Intercollegiate Amateur Athletic Association, Queen's gives every opportunity for students to compete in intercollegiate athletics on some of the many teams representing the University, while the student who is not a good enough athlete to find a place on a University team has the chance to play in inter-year and inter-faculty games.

Each student pays an Athletic Fee of \$5.00, which is collected with the sessional fee and paid to the Athletic Board of Control, by whom all athletic activities, the rink, the playing fields and the gymnasium are controlled.

During the summer of 1921, through the generosity of Dr. James Richardson, of Winnipeg, a graduate in Arts and now Chancellor of the University, the George Richardson Memorial Stadium was built on the Union Street Campus. The grand stand and bleachers accommodate about 6,000 spectators, and the playing field is unexcelled by any in Canada.

The Jock Harty Arena, built in 1921, was destroyed by fire in the spring of 1924. It was rebuilt on the same site during the summer. The new arena is equipped with an artificial ice plant.

### STUDENT ADVISERS

In order to assist students in the selection of optional courses (in the case of freshmen) and in general in methods of study and in the solution of personal and class problems, a student adviser has been appointed for each of the first two years.

Adviser for the first year, 1934-35, Professor J. K. Robertson.

Adviser for the second year, 1934-35, Dr. G. Spencer Melvin.

### THE ALMA MATER SOCIETY

Queen's was the first University in Canada to introduce Student Government. All students are members of the Alma Mater Society, the chief instrument of Student Government, and are expected to share in its duties and responsibilities.

### THE AESCULAPIAN SOCIETY

All students registered in the Faculty of Medicine are members of the Aesculapian Society, and amenable to its rules and regulations.

#### *Office Bearers*

Honorary President .....	Dr. William Gibson
President .....	N. E. Morrison
Vice-President .....	C. H. Leavens
Secretary .....	J. G. McBroom
Treasurer .....	J. V. Byrne
Committeemen:—Year '34, L. A. Remus; Year '35, J. B. McCarthy,	
Year '36, J. B. Roberts; Year '37, T. C. Wilson; Year	
Year '38, W. E. Allison; Year '39, E. C. Scharf.	

### THE CANADIAN OFFICERS' TRAINING CORPS

The Queen's University Contingent of the C.O.T.C. formed at the outbreak of the Great War under Lt.-Col. A. B. Cunningham, was organized as a unit of the Militia in February, 1915. Re-organized after the War by Col. A. Macphail, C.M.G., D.S.O., it is now commanded by Lt.-Col. W. P. Wilgar, D.S.O., and consists of three companies: "A" Coy.(Arts), "B" Coy. (Medicine), and "C" Coy. (Science).

The training, after recruit year, prepares for examination for "A" and "B" Certificates in Infantry and Medical Services, qualifying, the first for the rank of Lieutenant, the second for that of Captain. Commissions in the Permanent Force are offered from time to time to qualified members of the C.O.T.C. Students who enrol in their first year, complete the year's training and are returned as efficient, are excused from Physical Training. No student may try for "A" Medical Certificate until his fourth year in Medicine.

## HIGHER DEGREES

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### DEGREE OF DOCTOR OF SCIENCE (D.Sc.)

The degree of D.Sc. is granted under the following conditions:

- (1) A period of two years must elapse between graduation as M.D. and the completion of the course.
  - (2) Original and independent research in some subject of importance to medical science must be undertaken.
  - (3) The candidate must submit a thesis embodying the results of his research. The literary as well as the scientific quality of the thesis is to be taken into account in judging the candidate's fitness to proceed to the examination.
  - (4) The candidate must apply in writing to the Secretary at least two years before he proposes to present himself for final examination, and must submit the subject of his research for approval.
  - (5) The examinations upon subjects cognate to that of the thesis will be assigned by the Faculty and include a reading knowledge of scientific French or German.
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### DIPLOMA OF PUBLIC HEALTH (D.P.H.)

#### A. *For candidates who have taken the B.Sc., M.D. course.*

Such candidates will be entitled to enter for examination for this Diploma on presenting certificates of having taken:

- (1) Three months in attendance and clinical instruction in a Hospital for infectious diseases.
- (2) Three months in a Bacteriological Laboratory, devoted to bacteriological aspects of Public Health.
- (3) One week in practical testing of milk and milk products for chemical constitution and common adulterations.

(4) Six months with a recognized Medical Officer of Health in the practical study of Sanitation.

B. *For candidates proceeding to take this Diploma after graduation as M.D.*

Such candidates will be entitled to enter for examination for this Diploma on presenting certificates of having taken:

(1) Three months' course in Sanitary Physics (principles of statics, pneumatics, hydraulics, light, photometry, heat, thermometry, hygrometry).

(2) Three months' course in Sanitary Chemistry, especially devoted to quantitative and qualitative analysis of air, water, and common foodstuffs; this course must include one week's work in practical testing of milk and milk products for adulteration or sophistication.

(3) Three months' course in a Bacteriological Laboratory devoted to bacteriological aspects of Public Health work, such as examination of sputum, blood, swabs, water and milk, and the detection of common animal parasites.

(4) Three months' course in advanced Hygiene, covering especially a discussion of sewage and garbage disposal, water supplies, disinfection, transmissible diseases, vital statistics and sanitary legislation.

(5) Three months' course in Sanitary Engineering, including water services, sewerage systems, sewage and garbage disposal.

(6) Three months' attendance and clinical instruction in a Hospital for Infectious Diseases.

(7) Six months with a recognized Medical Officer of Health in the study of practical sanitation.

## SCHOLARSHIPS AND HONOURS

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The following scholarships and honours are awarded to students in the Faculty of Medicine. The scholarships, except those awarded in the final year, are tenable only by students in residence in the session following the award.

### THE ROBERT BRUCE SCHOLARSHIP

The Robert Bruce Scholarship of about \$90 awarded at the end of the first year to the student of Scottish extraction making the highest number of marks in the examinations of that year. One-third of the value of the Scholarship will be paid to the winner in each of the second, third, and fourth years of his course, provided he is in attendance in the Faculty in which the award was made.

This Scholarship has been established under provisions in the will of the late Robert Bruce of Quebec, and similar scholarships are awarded in the Faculties of Arts and Science.

### KHAKI UNIVERSITY AND Y.M.C.A. MEMORIAL FUND

This fund is part of a sum, left from the Khaki University after the War, which was divided among the Canadian Universities.

The interest, amounting to \$240, will be used to award one or more scholarships open to undergraduate students in any Faculty. In awarding these scholarships the need as well as the standing of applicants will be considered and preference will be given to sons or daughters of soldiers of the Great War. Applications will be received by the Registrar up to April 1st.

### THE REUBEN WELLS FELLOWSHIPS AND SCHOLARSHIPS

Under the will of the late Reuben Wells Leonard provision was made for the following Fellowships and Scholarships:

### THE REUBEN WELLS LEONARD FELLOWSHIPS

Four Fellowships of the value of \$500 will be awarded to graduates of the University "who are willing and qualified to undertake independent research work in the interests of higher culture". These Fellowships are tenable only by students in attendance at Queen's.

Application must be made to the Registrar not later than April 1st.

### THE REUBEN WELLS LEONARD UNDERGRADUATE SCHOLARSHIPS

Two Scholarships of the value of \$150 each and one of the value of \$200. One of these Scholarships is awarded in each Faculty to the student standing highest at the end of his penultimate year. The student must be in residence in his final year.

#### FACULTY SCHOLARSHIP

A Faculty Scholarship of \$40 awarded to the student making the highest number of marks on the examinations, of the second year.

#### THE N. F. DUPUIS SCHOLARSHIP

The N. F. Dupuis Scholarship of \$50 awarded to the student making the highest number of marks in the examinations in Chemistry of the third year. This Scholarship was founded by the graduates as a mark of their appreciation of the long and effective services of the late Dr. N. F. Dupuis, Professor of Mathematics.

#### THE DEAN FOWLER SCHOLARSHIP

The Dean Fowler Scholarship of \$40 awarded to the student making the highest number of marks in the examinations of the fourth year.

#### THE D. T. SMITH PRIZE IN PHARMACOLOGY

A prize, value \$20, awarded to the student in the fourth year making the highest number of marks in Pharmacology.

#### THE DAVID EDWARD MUNDELL PRIZE

The David Edward Mundell Prize of \$40, awarded to the student making the highest aggregate marks in the Surgical Applied Anatomy final examination of the fifth and sixth years.

#### FACULTY SCHOLARSHIP

A Faculty Scholarship of \$40 awarded to the student making the highest number of marks in the examinations of the fifth year.

#### SIR JOHN C. SCHULTZ MEMORIAL SCHOLARSHIP

Value \$80. Founded by his widow in memory of the late Sir John C. Schultz, K.C.M.G., M.D., LL.D., F.R.S., a leader of the loyal settlers against Riel in the Rebellion of 1869-70, and later a Lieutenant Governor of Manitoba. The Scholarship is based on the combined results of the sessional examinations of the fourth and fifth years, and is awarded when the student is in actual attendance in his final year. It is open only to male students of British descent, and the holder must be of good

Christian character, a total abstainer, and of satisfactory scholastic attainments. Preference will be given to non-smokers and to students who are planning to become medical missionaries.

#### ONTARIO MEDICAL ASSOCIATION PRIZE IN PREVENTIVE MEDICINE

An annual prize of twenty-five dollars has been instituted in the class of Preventive Medicine by the Ontario Medical Association. The first award of the prize was made at the close of session 1931-32 to the student who gained the highest marks in the class examinations.

#### PROFESSOR'S PRIZE IN SURGERY

A prize awarded to the student in the final year making the highest standing in Surgical Subjects.

#### PROFESSOR'S PRIZE IN MEDICINE

A prize awarded to the student in the final year making the highest standing in Medical Subjects.

#### PROFESSOR'S PRIZE FOR PATHOLOGICAL CASES

A prize awarded to the student who makes the highest marks on the series of pathological cases sent in.

#### PROFESSOR'S PRIZE IN PREVENTIVE MEDICINE

A prize awarded to the student who is *proxime accessit* in the class.

#### UNIVERSITY MEDALS

A University Medal awarded to the student making the highest number of marks in the examinations of the sixth year in Clinical Medicine, Pathology, Preventive Medicine, Psychiatry, and Jurisprudence.

A University Medal awarded to the student making the highest number of marks in the examinations of the sixth year in Clinical Surgery, Obstetrics, Gynaecology, Applied Anatomy, and Eye, Ear, Nose and Throat.

The following awards are not endowed and are made only if the money is available:—

#### THE NEW YORK ALUMNI ASSOCIATION PRIZE

The New York Alumni Association Prize of \$50 awarded to the student making the highest number of marks in the courses in Embryology and Histology of the second year.

#### THE BOAK PRIZE

The Boak Prize in Anatomy, value \$25, donated by Dr. Eric W. Boak, of Victoria, B.C., awarded to the student making the highest number of marks in the written and oral examinations in Anatomy of the third year.

#### CANADIAN NATIONAL COMMITTEE FOR MENTAL HYGIENE SCHOLARSHIP

Canadian National Committee for Mental Hygiene Scholarship of \$50, awarded to the student making the highest number of marks in Psychiatry.

#### THE JAMES PRIZE

A Prize of \$20 in gold given by Dr. James of Mattawa for the best examination in final year Medicine and Clinical Medicine.

#### THE BURTON PRIZE

A prize of \$25.00 offered by Mrs. Burton, widow of the late Dr. Samuel Burton of New York awarded in the sixth year to the student who passes highest in a test to consist of physical examination of the chest.

#### HOSPITAL APPOINTMENTS

Four Internships at the Kingston General Hospital, of twelve months each are awarded to students of the graduating class. These appointments must be approved by the Board of Governors of the Kingston General Hospital. Application for these appointments must be made to the Secretary of the Faculty not later than December 15th in each year.

Two Clinical Assistantships are available on the staff of the Ontario Hospital for the Insane during the summer. Applications must be made to the Superintendent, by whom the appointments are determined. Emphasis is laid on the special qualifications necessary for such work.

#### RICHARDSON FELLOW IN PATHOLOGY—GENERAL HOSPITAL

On the foundation of this Fellowship in 1927, Mrs. A. F. Richardson undertook to maintain the annual salary of a clinical Pathologist to the Hospital for a period of five years. Mrs. Richardson died in 1931, but has made provision for the maintenance of the Fellowship. Appointment is open to graduates, preference being given to those who have previously served as Internes or taken special training in Pathology.

Salary, \$50 per month, with rooms and board in Hospital. Appointments may be held for one or more years at the discretion of the

Committee. The appointee will have the status of a senior interne in Hospital, and outlining of duties will be under control of a Committee consisting of the Professors of Medicine, Surgery and Pathology.

#### EXHIBITION OF 1851—SCIENCE RESEARCH SCHOLARSHIP

This scholarship of the annual value of £250 stg., is awarded by Her Majesty's Commissioners for the Exhibition of 1851 to students who have given evidence of capacity for original research, and are under 26 years of age. A given number of scholarships are awarded annually to students in Canada, recommended by the universities approved by the Commissioners.

The nominee must be a British subject, must have been a *bona fide* student of science for three years, must have been a student of the University for a full year immediately before his nomination, must be a student of the University at the time of his nomination, and must pledge himself not to hold any position of emolument whilst holding the scholarship without special permission from the Commissioners. He is recommended to the Commissioners by the Senate of the University. The scholarship will be tenable ordinarily for two years, and in cases of exceptional merit, for three years. The scholar will in the absence of special circumstances be required to proceed to a country other than that in which he received his scientific training and there pursue some investigation likely to promote technical industries or scientific culture. The particular investigation the student proposes to pursue must be stated before a scholarship can be awarded.

#### THE GEORGE CHRISTIAN HOFFMAN FELLOWSHIPS

The Alpha Fellowship for Pathological Research of \$800 and the Beta Fellowship for extended studies in Surgery of \$600 awarded to recent graduates nominated by the Faculty and approved by the Senate of the University. The awards will be determined by the undergraduate record of the candidates and upon evidence of capacity for original research. Applications for these Fellowships should be made to the Secretary of the Faculty not later than the first of March in each year.

The holders of the Fellowships shall proceed to some Institution or University in Europe or the United States of America, approved by the Senate of the University, where post-graduate study and research may most advantageously be pursued. The Fellowships may be tenable for a second or even a third year, upon the recommendation of the Faculty.

The George Christian Hoffman Fellowships have been awarded as follows:

In Pathology:—1919, Clifford D. Gallagher, M.B. (1916), M.D., C.M. (1921).

1921, Theo. J. Curphey, M.D., C.M. (1921).

1923, Wm. Susman, B.A., M.D., C.M. (1923).

1926, P. Thomas McIlroy, M.B. (1916), M.D., C.M. (1921).

1927, John H. Orr, M.D., C.M. (1923).

1928, G. Harold Ettinger, B.A., M.D., C.M. (1920)

1929, J. A. Hannah, B.A., M.D., C.M. (1928).

1930, John Mann, M.D., C.M. (1927).

1931, W. Ford Connell, M.D., C.M. (1929).

1932, John T. Tweddell, M.D., C.M. (1931).

1933, Eldon M. Boyd, M.A., M.D., C.M. (1932).

In Surgery:—1921, Lyon H. Appleby, M.D., C.M. (1919).

1922, Calvert M. Carruthers, M.D., C.M. (1921)

1923, C. Merlin Eynon, M.D., C.M. (1922).

1924, Arnold R. Richards, M.D., C.M. (1923).

1925, N. Roy Houston, M.D., C.M. (1922).

1926, Stuart W. Houston, M.D., C.M. (1924).

1927, John L. McKelvey, B.A., M.D., C.M. (1926).

1928, Nathan E. Berry, M.D., C.M. (1926).

1929, Nathan E. Berry, M.D., C.M. (1926).

1930, Geo. C. Ferguson, B.A., M.D., C.M. (1928).

1931, Joseph A. Kearns, M.D., C.M. (1930).

1932, Eldon M. Boyd, M.A., M.D., C.M. (1932).

1933, Lawrence R. LeFave, M.D., C.M. (1932).

#### STUDENT EXCHANGES

It is probable that from time to time student exchanges will be arranged with French and German universities. The scholarship will cover tuition, board and lodging. Applications will be received by the Registrar each year up to March 1st from final year and graduate students.

## REQUIREMENTS FOR LICENSE

Kingston is a centre for the Examinations of the Medical Council of Canada, and also for those of the College of Physicians and Surgeons of Ontario. Graduates who propose to take the examinations of these licensing bodies, are able to do so immediately after the examinations of the University. The written examinations are held in one of the University buildings, and the clinical examinations in the General Hospital.

### DOMINION OF CANADA

A University Degree does not give the right to practise the profession of Medicine. It is also necessary to conform with the laws pertaining to the practice of Medicine in the province, state or country in which it is proposed to begin practice. The Medical Council of Canada issues a diploma which is accepted for registration in any province of the Dominion.

In order to qualify for the examinations of the Canada Medical Council, the candidate must hold the license of a Provincial Board, or present a certificate from the Registrar of a Provincial Medical Council that he holds a medical degree from an approved Medical College. Students are advised to secure this qualification in preference to one from any provincial council. The announcement of the Medical Council of Canada may be obtained from Dr. J. Fenton Argue, Registrar, 180 Metcalfe Street, Ottawa.

Each province in Canada has a special standard of medical education and special requirements for license. Detailed information as to qualifications for the practice of Medicine in the various provinces may be obtained from the Provincial Registrars, as follows:

*Alberta:* DR. G. R. JOHNSTON, 224 Seventh Avenue West, Calgary.  
*British Columbia:* DR. A. P. PROCTOR, 203 Medical Dental Bldg., 925

Georgia St. West, Vancouver, B.C.

*Manitoba:* DR. W. G. CAMPBELL, 605 Medical Arts Building, Winnipeg.

*New Brunswick:* DR. S. H. MACDONALD, 56 Coburg St., Saint John, N.B.

*Nova Scotia:* DR. H. L. SCAMMELL, Provincial Medical Board of Nova Scotia, Halifax.

*Ontario:* DR. H. WILBERFORCE AIKINS, 566 University Ave., Toronto.

*Prince Edward Island:* DR. H. D. JOHNSON, 275 Richmond St., Charlottetown.

*Saskatchewan:* DR. A. M. YOUNG, Saskatoon.

*Quebec:* DR. JOSEPH GAUVREAU, 364 rue Ste. Catherine Est, Montreal.

#### GREAT BRITAIN AND IRELAND

The General Council of Medical Education and Registration has general supervision over the various licensing and examining Boards and keeps the Medical Register. The main licensing and examining bodies recognized in Great Britain apart from the universities are as follows:

In England:—The Conjoint Board of the Royal College of Surgeons of England and Royal College of Physicians of London, and the Society of Apothecaries, London. Information can be obtained from the Secretary of the English Conjoint Board, 8-11, Queen Square, Bloomsbury, London, W.C. 1, and the clerk of the Society of Apothecaries, Water Lane, Blackfriars, E.C. 4.

In Ireland:—The Conjoint Board of the Royal Colleges of Physicians and Surgeons of Ireland, and the Apothecaries' Hall of Ireland. Information can be obtained from the Secretary of the Irish Conjoint Board, Royal College of Surgeons, Dublin, and the Registrar, Apothecaries' Hall of Ireland, 93, Merrion Square, Dublin.

In Scotland—The Conjoint Board of the Royal Colleges of Physicians and Surgeons of Edinburgh and the Royal Faculty of Physicians and Surgeons of Glasgow. Information can be obtained from the Secretary of the Scottish Conjoint Board, 49, Lauriston Place, Edinburgh.

Certificates of Queen's University Medical Faculty are accepted by these Boards for admission to their examinations, so that those possessing the degree of M.D. from Queen's University are entitled to all the privileges in Great Britain that are accorded to students and graduates of other Colonial Colleges and Universities.

#### UNITED STATES

The Journal of the American Medical Association publishes an Abstract of the Laws regulating the Practice of Medicine in the various States and Territories of the United States. The price of the pamphlet is 50c., and it may be obtained by addressing the American Medical Association, 535 North Dearborn Street, Chicago, Ill.

The Medical School is listed as Class A by the Council on Medical Education and Hospitals of the American Medical Association.

## COURSES OF INSTRUCTION

### ANATOMY

#### A

##### DESCRIPTIVE AND PRACTICAL ANATOMY

*Professor* - - D. C. MATHESON, M.B.

*Fellow* - - - H. S. ANGROVE, M.D., C.M.

*Fellow* - - - F. J. O'CONNOR, M.D., C.M.

*Demonstrator*. STUART W. HOUSTON, M.D., C.M., F.R.C.S.(Edin.),  
F.R.C.S.(C.)

*Demonstrator* ARTHUR E. HARBESON, M.D., C.M.

#### SECOND YEAR

- (a) The study of the bones and the dissection of the upper extremity.
- (b) The bones of the trunk and dissection of the thorax.
- (c) The bones of the head and dissection of the head and neck.
- (d) Class review and demonstration on the parts dissected, conducted twice weekly, or more frequently when it seems necessary.
- (e) In addition to the above, an elementary course of lectures on the Systematic Anatomy of the body as a whole.

#### THIRD YEAR

- (a) The study of the bones and the dissection of the lower extremity.
- (b) The dissection of the abdomen and pelvis.
- (c) The dissection of the brain.
- (d) Class review and demonstration on the parts dissected, conducted twice weekly, or as often as necessary.
- (e) A review of the work of the second year.

Students must dissect the whole of the human body, during the course. Preliminary and final oral examinations are required from each student, on each part dissected. Besides these, mid-sessional written examinations are held in December, and final written examinations

at the close of the spring term. Students must complete the dissection and take all oral examinations before being allowed to proceed with the final written examinations.

Bones of the head, trunk and upper extremity are loaned to second year students and bones of the lower extremity to third year students.

Arrangements may be made by graduates and others for the use of the dissecting room and for material for special study. Encouragement is given to students of the 4th, 5th and 6th years who wish to do review work in the dissecting room.

#### TEXT-BOOKS AND BOOKS OF REFERENCE

Gray, Cunningham, Morris, Piersol, Buchanan. Cunningham: *Manual of Practical Anatomy*. Walmsley: *Practical Anatomy*. *Practical Anatomy by Six Teachers*, edited by Stibbe. Jamieson: *Companion to Anatomy*. Wolff: *A Shorter Anatomy*. Frazer: *The Anatomy of the Human Skeleton*. Sobotta-McMurrich: *Atlas of Human Anatomy*. Spalteholz: *Hand Atlas of Human Anatomy*. Toldt: *An Atlas of Human Anatomy*. Eycleshymer and Schoemaker: *A Cross-section Anatomy*. Kuntz: *Neuro-anatomy*. Herrick: *Neurology*. Ranson: *Anatomy of the Nervous System*. Kuntz: *Autonomic Nervous System*. Looney: *Anatomy of the Brain and Spinal Cord*. Rasmussen: *The Principal Nervous Pathways*. Arey: *Developmental Anatomy*. Bailey and Miller: *Text-book of Embryology*. Simkins: *Text-book of Human Embryology*. Frazer: *Manual of Embryology*. Keith: *Human Embryology and Morphology*. Maximow: *Text-book of Histology*.

## B

#### MEDICAL AND SURGICAL ANATOMY

*Professor* - - - L. J. AUSTIN, M.Ch., F.R.C.S.Eng.  
F.R.C.S.(C.)

*Associate Professor*—J. F. SPARKS, B.A., M.D., C.M.  
F.R.C.S.(C.)

*Assistant Professor*—S. J. KEYES, M.D., C.M., F.R.C.S.(C.)

*Assistant Professor*—S. W. HOUSTON, M.D., C.M., F.R.C.S.  
(Edin.), F.R.C.S.(C.)

The students are taught to make practical use of the facts of anatomy, and the application of these to medical and surgical practice is shown. Attention is directed to the manner in which the anatomy affects the course and progress of disease, and to the alteration in the anatomical relations in disease. Special attention is given to displacements in fractures and dislocations, topographical anatomy, and ligation of arteries.

#### APPROVED TEXT-BOOKS

Davis, Treves and Keith, Beesly and Johnson, Campbell, Rawling: *Landmarks and Surface Markings*. C. Latimer Callander: *Surgical Anatomy*.

#### BACTERIOLOGY

*Professor*—GUILFORD B. REED, M.A., B.Sc., Ph.D., F.R.S.C.

*Assistant Professor*—JOHN H. ORR, M.D., C.M., F.R.C.P.(C.)

#### THIRD YEAR

1. *General and Pathogenic Bacteriology*. This course covers the general principles of bacteriology. The lectures deal with the structure and physiology of bacteria, the theories of infection and immunity and a systematic study of the pathogenic bacteria. Laboratory practice includes the preparation of culture media and the biochemical, cultural and microscopic study of bacteria. The principal pathogenic bacteria are isolated from hospital material.

Professors Reed and Orr.

Text-book:—

Topley and Wilson, *Principles of Bacteriology*, or  
Zinsser, *Text Book of Bacteriology*.

#### FOURTH YEAR

2. *Parasitology*. A laboratory study of the principal lower animal parasites.

Professor Reed.

3. *Immunology and Clinical Bacteriology*. The work of this course consists of a systematic examination of the principles of infection and immunity, the production of immune bodies and immune reactions. This will be supplemented by a detailed bacteriological study of selected cases. Laboratory work, prescribed reading and reports. The work is arranged as far as possible to run parallel with lectures and clinics in Medicine, so that clinical and bacteriological aspects of cases under study are correlated.

Professor Orr.

Text-books:—Topley and Wilson: *Principles of Bacteriology*. Chandler: *Animal Parasites of Man*.

#### ELECTIVE COURSES

4. *Immunology and Physiology of the Bacteria*.

Lectures, reading and laboratory practice.

Professor Reed.

5. *Research.* Properly qualified students who wish to make a special study of Bacteriology are admitted to the laboratory to undertake special problems. This work may be carried out during the session or in the summer, or both.

Professors Reed and Orr.

## BIOLOGY

*Lecturer*—G. KROTKOV, M.A.

*Assistant*—B. G. GARDINER.

### FIRST YEAR

1. *General Biology.*—A course of three lectures and six hours of laboratory work per week throughout the session—botany in the first term and zoology in the second.

A general survey of the plant and animal kingdoms with laboratory work on representatives of the main groups; special attention being given to higher plants and mammals; identification of poisonous and medicinal plants and of the commoner animals of Canada; principles of physiology; evolution, genetics and eugenics.

Text-books: Holman and Robbins, *Textbook of General Botany* (John Wiley and Sons). Woodruff, *Foundations of Biology* (Macmillan, fourth edition).

## CHEMISTRY

*Associate Professor of Biochemistry*—J. F. LOGAN, M.A., Ph.D.

*Assistant Professor of General Chemistry*—

R. L. DORRANCE, M.A.

*Assistant in Organic Chemistry*— R. BULL, B.A.

All lecture and laboratory classes in Chemistry are conducted in Gordon Hall.

Examinations are held at intervals during the session and the standing of the student is determined by the results of these examinations and by the character of his laboratory work, as well as by the grade obtained at the annual examination.

No student is admitted to the annual examination who has failed to attain a certain standard in the laboratory exercises.

A laboratory deposit of \$10 for each course is required to cover breakage of apparatus and damage to laboratory property and must be paid to the Treasurer of the University before a locker will be assigned.

## FIRST YEAR

### 1. General Chemistry and Analysis.

(a) A course of three lectures per week on the fundamental laws and theories of these two subjects. This course includes a description of the common elements and compounds and a discussion of elementary qualitative analysis. The lectures are illustrated by demonstrations and laboratory exercises.

(b) A course of six hours per week of laboratory exercises in General Chemistry and Analysis. These exercises aim to train the student in laboratory technique, in learning the properties of the elements and their common compounds, and in the detection of the positive and negative radicals of all the common salts. Volumetric analysis is also included in the course.

Text-books:—Kendall, *Smith's College Chemistry*. Belcher and Colbert: *Experiments and Problems for College Chemistry*. Belcher and Colbert: *Identification and Properties of the Common Metals and Non-metals*.

Collegiate chemistry with laboratory exercises should precede this course. Collegiate chemistry A 1 (Arts Calendar) will not be accepted as equivalent to the first year medical chemistry unless offered in conjunction with the course in qualitative analysis, A 2.

## SECOND YEAR

### 2. Organic Chemistry.

Two hours lectures, and two hours laboratory work per week, throughout the year.

The principles of organic chemistry, essential as a foundation for an understanding of physiological chemistry, are discussed. Typical organic compounds are prepared in the laboratory and the properties and reactions of the more important classes of organic compounds of both the methane and benzene series are studied in detail.

Text-books:—Lowy and Harrow: *Introduction to Organic Chemistry*. Fisher: *Laboratory Manual of Organic Chemistry*; or, Lowy and Baldwin: *A Laboratory Manual of Organic Chemistry*.

## THIRD YEAR

### 3. Physiological Chemistry.

Two hours lectures, and five hours laboratory, per week, are given throughout the year.

The course includes a detailed study of the properties of the carbohydrates, lipoids and proteins and of the chemical processes involved in respiration, secretion, digestion, absorption, metabolism and excretion and the chemistry of the tissues. The composition of foods and the elements of the science of nutrition are also discussed.

Text-books:—

Bodansky: *Introduction to Physiological Chemistry*.

Hawk and Bergeim: *Practical Physiological Chemistry*.

BOOKS OF REFERENCE

Mathews: *Physiological Chemistry*. Macleod: *Physiology and Biochemistry in Modern Medicine*. Cole: *Practical Physiological Chemistry*. Cameron: *Text Book of Biochemistry*. Lusk: *The Science of Nutrition*. Sherman: *The Chemistry of Food and Nutrition*. Sherman and Smith: *The Vitamines*. Monographs on Biochemistry.

FOURTH YEAR

4. *Pathological Chemistry*.

A course of one lecture a week on the chemistry of pathological processes.

Reference books:—Wells: *Chemical Pathology*. Beaumont and Dodds: *Recent Advances in Medicine*. Campbell and MacLeod: *Insulin and Diabetes*. MacLean: *Modern Methods in the Diagnosis and Treatment of Renal Disease*. Rehfus: *Diseases of the Stomach* MacLean: *Modern Views on Digestion and Gastric Disease*. Stewart and Dunlop: *Clinical Chemistry in Practical Medicine*. Joslin: *The Treatment of Diabetes Mellitus*.

ENGLISH

Lecturer—ERIC DUTHIE, M.A.

English 1, *Prose Composition, with Literary Background*.

A practical course in Prose Composition, with parallel reading. In the examination both knowledge of the texts and ability to write clearly and correctly will be required.

Prescribed Texts:—Richard Wilson, *Thinking About English* (London and Toronto: Thomas Nelson and Sons). Shakespeare: *Henry IV*, Part I (Toronto: Oxford University Press). Joseph Conrad: *Typhoon*. H. G. Wells: *The History of Mr Polly*. *Selected English Essays*, King's

Treasury Series. *Selected Short Stories*, World's Classics, No. 193. Amanda M. Ellis, *Representative Short Stories* (London and Toronto: Thomas Nelson and Sons). In addition to the foregoing each student must possess a satisfactory English dictionary, preferably the *Concise Oxford Dictionary*, (Toronto: Oxford University Press).

### EYE, EAR, NOSE AND THROAT

F. A. CAYS, M.D., C.M., F.R.C.S.(C.)—

*Professor (Division of Ear, Nose and Throat).*

C. E. O'CONNOR, M.D., C.M.—*Associate Professor* (at Hotel Dieu).

H. C. CONNELL, B.A., M.D., C.M.—*Assistant Professor (Division of Ear, Nose and Throat).*

H. P. FOLGER, B.A., M.D., C.M.—*Assistant Professor (Division of Eye).*

F. X. O'CONNOR, M.D., C.M.—*Clinical Assistant.*

The course of instruction is carried on in the Kingston General Hospital. There is both an In-door and Out-door service. A large Clinic room, in which there are three cubicles, is used for clinics and for teaching the examination of patients.

This course is carried on during both fifth and sixth years.

Clinics for the final year students are given one day a week at the Hotel Dieu Hospital.

Most of the work is clinical and in addition to this, a series of lectures is delivered upon the various diseases of the Eye, Ear, Nose and Throat.

Text-books:—May, Parsons, Swanzy, Gleeson, Logan Turner.

Reference Books:—Fuchs, Ball, de Schweinitz, St. Clair Thomson, Phillips, Skillern.

### GYNAECOLOGY

*Professor*—G. W. MYLKS, M.D., F.R.C.S.(C).

*Assistant Professor*—PRESLEY MCLEOD, B.A., M.D., C.M.

### FIFTH YEAR

The course includes methods of pelvic examination, the disorders of menstruation, diseases of the female generative organs, injuries to the pelvic floor, urinary bladder and rectum, malformations and displacements of the uterus, extra-uterine pregnancy and benign and malignant growths affecting the female genitalia.

At the Hospital, demonstrations are given in operative technique, post-operative treatment and instruments used in gynaecologic cases, also in the application of pessaries and such local treatments as douches, tamponade, etc. The various pelvic and vaginal operations are performed before sections of the class.

#### SIXTH YEAR

The work of the sixth year is taken up in the hospitals and is largely clinical and operative, including special methods of examination such as cystoscopy, etc. Special attention is given to the pathology of pelvic growths.

#### BOOKS OF REFERENCE

James Young, Herman, Eden, Anspach, Graves, Crossen, Kelly, Barbour and Watson. Bourne: *Synopsis Obstetrics and Gynaecology*.

#### HISTORY

*Associate Professor—REGINALD G. TROTTER, Ph.D.*

#### FIRST YEAR

History 2. *British History since 1714.*

The lectures will deal with such topics as the following: The Hanoverian succession as the corollary of the Revolution of 1688; the development of party government and the cabinet; Imperial expansion and dismemberment; eclipse of the Whigs; the French Revolution and domestic reaction; the Industrial and Social Revolutions; the democratization of the constitution; the growth and government of the new Empire; Ireland; Britain and the Powers in the nineteenth century; the Empire in the World War; problems of peace and reconstruction.

- T. F. Tout, *Advanced History of Great Britain*, Part III (Longmans).
- R. B. Mowat, *England in the Eighteenth Century* (Clarke, Irwin & Co., in Toronto; Harrap in London).
- G. M. Trevelyan, *British History in the Nineteenth Century* (Longmans).

## HISTORY OF MEDICINE

*Professor*—THOMAS GIBSON, M.A., M.B., C.M., Edin., F.R.C.P.(C.).

### SIXTH YEAR

This course consists of a weekly series of informal talks illustrative of the great episodes in the History of Medicine. Interest naturally centres around the lives of the great path finders, and the fresh truths they gave the world.

As far as possible these are exemplified by quotations from their writings, from Hippocrates to Lister.

## MEDICAL JURISPRUDENCE

*Lecturer*—P. M. MACDONNELL, M.A., M.D., C.M.

*Lecturer*—T. J. RIGNEY, B.A., K.C.

### SIXTH YEAR

The course in Jurisprudence includes the following: legal criminal procedure; Coroner's court; medical evidence, identity; modes of dying; sudden death, signs of death; homicide, suicide; wounds, burns and scalds; suffocation, hanging and strangling; drowning; death from starvation, cold and heat, lightning and electricity; marriage and divorce; offences against chastity; pregnancy and delivery; criminal abortion; infanticide, causes of death to the foetus; legitimacy, impotence, sterility; malingering and feigned diseases; survivorship, life assurance, wills, malpractice; Workmen's Compensation Act.

## BOOKS OF REFERENCE

Taylor; Hamilton; Peterson, Haines and Webster; Buchanan; Sidney Smith; Glaister.

## MEDICINE AND CLINICAL MEDICINE

*Professor* - - - W. T. CONNELL, M.D., F.R.C.P.(C.).

*Associate Professor*—WM. GIBSON, M.D., F.R.C.P.(C.).

*Lecturer* - - - B. H. HOPKINS, M.B.

*Lecturer* - - - - J. R. THIRD, B.A., M.D.

*Fellow* - - - - W. FORD CONNELL, M.D., M.R.C.P.(Lond.).

*Clinical Assistant*—G. H. BIRD, M.B., M.R.C.P.(Lond.).

*Clinical Assistant*—J. S. DELAHAYE, M.D.

*Clinical Assistant*—C. W. BENNETT, M.D.

*Clinical Assistant*—C. H. ELLIOTT, M.D.

#### FOURTH YEAR

##### 1. *Physical Diagnosis.*

The course covers the methods of examination of patients, including the principles and methods of physical diagnosis and the taking of case records. Two hours per week are spent on this work.

##### 2. *Infectious Diseases.*

By way of introduction to the study of Medical diseases, lectures are given one hour weekly on the Infectious Diseases. Opportunity is taken to show examples of these conditions in the wards of the Isolation and General Hospitals.

##### 3. *Metabolic Diseases.*

In association with the class work in Pathological Chemistry, one hour per week is devoted to the clinical discussion of the Diseases of Metabolism.

#### FIFTH YEAR

The work of the fifth year is mainly clinical. Students are assigned as clinical clerks and under the supervision of the Fellow in Medicine, aided by the house physician, are responsible for the preparation and recording of case histories, including the necessary physical and laboratory examinations. The class is divided into sections for ward teaching under special instructors and each section must spend three two-hour periods per week in this work.

A review of the main systemic diseases, their etiology, course, symptoms and diagnosis is also carried on during the session.

#### SIXTH YEAR

Work during this year is carried on in the Hospital wards and by clinical demonstrations in the lecture theatre.

#### TEXT-BOOKS

Clinical Methods and Casetaking: Cabot, Foster, Emerson, Hutchinson and Rainey, Bourne.

Practice of Medicine: Conybeare; Osler and McCrae; Price; Cecil.

Skin Diseases: MacKenna, Walker, Schamberg, Sutton, Sequeira,

Hartzell, Andrews.

Nervous Diseases: Wechsler, Thomson and Riddoch, Purves Stewart.

Heart Diseases: Thomas Lewis, MacKenzie, Price, Reid, White,

Cabot.

Therapy: Beckman, Osborne, Sorapure, De Costa, Hutchison and Sherren. Bellingham-Smith & Feiling's *Modern Medical Treatment.*

Dietetics: McLester, *Nutrition and Diet.* Harrop, *Diet in Disease.*

#### BOOKS OF REFERENCE

French, "Differential Diagnosis"; Tidy, "Index of Symptomatology"; Morris, "Dictionary of Practical Medicine"; Wilson, "Internal Medicine"; Ker, "Infectious Diseases"; Rolleston, "Infectious Diseases"; Norris and Landis, "Diseases of the Chest"; Savill, "Clinical Medicine," Martinet, "Clinical Diagnosis"; Greene, "Medical Diagnosis"; "International Clinics" (Lippincott).

#### OBSTETRICS

*Professor* - - - G. W. MYLKS, M.D., C.M., F.A.C.S., F.R.C.S.(C)

*Assistant Professor* F. J. O'CONNOR, M.D., C.M.

*Assistant Professor* PRESLEY MCLEOD, B.A., M.D., C.M.

*Clinical Assistants* P. H. HUYCK, M.D., C.M.

C. W. BENNETT, M.D., C.M.

For fifth year students the course in Obstetrics includes the anatomy of the pelvis; anatomy, anatomical relations and physiology of the organs of generation; menstruation, ovulation and conception; development of the embryo, foetus and foetal appendages; the diagnosis of pregnancy, phenomena and management of normal labor; management of the mother and infant during the puerperal period; mechanism and management of labor for the several presentations; twin pregnancy and labor.

#### SIXTH YEAR

In the sixth year the pathology of pregnancy, parturition and the puerperium is taken up. Under this heading are considered the diseases of the membranes and placenta; the diseases and disorders of pregnancy; the effects of certain diseases on pregnancy and parturition; mensuration of the pelvis; dystocias resulting from deformed pelvis; faulty mechanism, mal-presentations and positions; ante partum and post partum hemorrhage; diseases incident to the puerperium; and obstetric surgery. The lectures are illustrated by the artificial pelvis, drawings and models. The class is admitted to the practice of the maternity wards of the Hospital and Hotel Dieu, where practical instruction is given in the management and care of such cases. During the session also, the class is taken in sections for drill with the mannikin, and for instruction in other branches of clinical work. The sections and the two-hour periods are arranged at the beginning of the session.

#### BOOKS OF REFERENCE

Williams; Eden; De Lee; Polak; Jellett and Madill; Johnstone; Bourne: *Synopsis Obstetrics and Gynaecology*.

## PATHOLOGY

*Professor*—JAMES MILLER, M.D., D.Sc., F.R.C.P.Ed., F.R.C.P.(C),  
F.R.S.C.

*Assistant Professor*—W. D. HAY, M.A., M.D., C.M.

*Assistant Curators of Museum*—C. D. T. MUNDELL, B.Com., M.D., C.M.,  
and GORDON MYLKS, B.A., M.D., C.M.

*Richardson Fellow in Pathology*—ROBERT JOHNSTON, M.D., C.M.

### FOURTH YEAR

**1. General Pathology.** Students of the fourth year attend a course of lectures and demonstrations in General Pathology covering three hours per week. Two additional hours per week are spent in the laboratory studying microscopic preparations illustrating the matter discussed in the lectures.

**2. Clinical Microscopy.** Three hours per week are spent in chemical and microscopical examination of urine, blood, gastric contents, faeces, exudates, transudates, cerebro-spinal fluid, and animal parasites.

Books—Text: Muir, Miller, Nicholson; Reference: Boyd, MacCallum, Delafield and Prudden.

### FIFTH YEAR

**3. Pathology and Morbid Anatomy.** Students of the fifth year attend a series of lectures and demonstrations in Pathology and Morbid Anatomy occupying five hours per week during the session. Two hours are devoted to lectures, two to practical work, mainly microscopic in character, and one to museum work.

Each student when assigned to cases in the hospital wards is required to make the microscopical and chemical examinations necessitated by the case. Assistance in these examinations will be given by the members of the Department of Pathology on request.

Students in rotation assist in making autopsies and are required to furnish during the course of the fourth, fifth and sixth years reports on eight cases, including in these reports the clinical history, morbid anatomy and histology and pathology of the case, along with a critical review of the pathogenesis and the causes of death. Two of the cases must be handed in during the fourth year, three in the fifth and three in the sixth. These cases are marked and annotated by the members of the medical, surgical and pathological staffs, and the marks obtained recorded. No student is allowed to complete his course who has not obtained at least 60% of marks over the whole series.

Books—Texts: Muir; Wright, or Hewlett

#### SIXTH YEAR

4. A course of lectures and practical work, three hours per week, in Serology is given during the latter half of the session. This course is intended to prepare the practitioner for sending in material to a public health laboratory and for the interpretation of the reports. The matters of carrying out of skin tests, the preparation and use of vaccines and immune sera are also dealt with practically.

Books—Reference: Kolmer, Boyd, Hadfield and Garrod.

*Clinico-pathological Conferences.*—Conferences on medical and surgical cases in their clinical, pathological and bacteriological aspects are held each Saturday morning throughout the session. These are open to students of the fifth and sixth years. The cases brought up at these conferences form the basis of the reports mentioned above.

#### PEDIATRICS

*Professor of Pediatrics*—R. R. MACGREGOR, M.D., F.R.C.P.(C.).

#### FIFTH YEAR

This course includes the general care and management of infants, clinical investigation of diseases in infants, injuries and diseases of the newly born, infant feeding, derangements of nutrition, diseases due to faulty nutrition, diseases of the digestive system, respiratory diseases, acute infectious diseases, and practical demonstrations of the preparation of infant foods.

#### SIXTH YEAR

##### Clinics

Text-books: Holt, Grulee.

#### BOOKS OF REFERENCE

Still, Hutchison, Griffith, Thompson, Dennett, Talbot and Morse, Porter and Carter, Feer.

#### PHARMACOLOGY, MATERIA MEDICA, PHARMACY AND THERAPEUTICS

*Douglas Professor of Therapeutics*—THOMAS GIBSON, M.A., M.B., C.M. (Edin.), F.R.C.P.(C.)

The lecture course deals with the dynamic action of drugs upon the various parts of the body. An effort is made to exemplify these effects by citation of cases observed in medical practice. The value of

endocrines in treatment, according to present knowledge, is discussed. Forms of administering drugs are illustrated throughout the course by the writing and discussion of prescriptions in weekly class exercises.

At the beginning of the course some demonstrations are given of pharmaceutical methods of preparing drugs for use, pharmacal methods of compounding, and incompatibilities.

In the experimental course, the actions of typical drugs are observed upon the living tissues of frogs, guinea pigs, and rabbits.

The Professor of Pharmacology and Therapeutics lectures once a week to fifth and sixth year students, taking up the treatment of certain medical diseases.

Relevant monographs or articles in systems are referred to as occasion arises.

#### BOOKS OF REFERENCE

Pharmacology: *Cushny, Dixon, Sollman, Meyer and Gottlieb.*

Materia Medica and Therapeutics: *Bastedo, Bruce and Dilling, Whitla.*

### PHYSICS

*Professor*—J. K. ROBERTSON, M.A., F.R.S.C.

*Lecturers*—B. W. SARGENT, Ph.D., E. E. WATSON, B.Sc., Ph.D.

*Assistant*—C. W. CLAPP, B.Sc.

#### FIRST YEAR

##### 1. *Elementary Physics.*

(a) A course of three lectures per week throughout the year. The course includes lectures on Statics, Dynamics, Properties of Matter, Heat, Sound and Light. Special emphasis is given to such subjects as Surface Tension, Osmotic Pressure, and some of the physical properties of Colloidal Solutions. While the course is one on the fundamental laws of Physics, examples of the application of these laws to Medicine are introduced wherever it seems advisable to do so.

(b) Two hours per week in the laboratory.

Text-books to be announced.

#### SECOND YEAR

##### 2. *Electricity and Magnetism, Conduction of Electricity through Gases, Roentgen Rays and Radioactivity.*

(a) A course of two lectures per week in which a thorough elementary treatment of the above subjects is given. In the latter half

of the course the lectures are designed to familiarize the student with modern X-ray equipment and its operation, as well as with the physical nature of radiations of therapeutic value.

(b) *Laboratory*—Two hours per week.

Text-books:—

Reynolds: *Electricity and Magnetism* (G. Bell and Sons).

Robertson: *X-Rays and X-Ray Apparatus* (Macmillan, N.Y.).

## PHYSIOLOGY

*Professor* - - - - G. SPENCER MELVIN, M.D., Aberd.

*Associate Professor and Lecturer in Embryology*—

G. H. ETTINGER, B.A., M.D., C.M.

## SECOND YEAR

1. *Histology*. The earlier part of the course consists of a detailed study of the principal tissues of the body. Preparations of these are made and examined in the fresh condition and in mounted specimens. This is followed by a study of the structure of the organs of the body. In the laboratory the student is trained in the technique of the different methods of making microscopic preparations and each student must cut, stain and mount a number of sections from fresh material. For this work the class is divided into small sections which work under the immediate supervision of the staff at hours to be arranged.

A complete collection of mounted slides is supplied.

Text-books:—Jordan: *Histology*.

Schafer: *Essentials of Histology*.

2. *Embryology*. The course consists of one lecture period and two hours' laboratory work per week on the embryology of the chick and pig.

Text-books:—Lillie and Moore: *A Laboratory Outline of Embryology*.

Arey: *Developmental Anatomy*.

Jordan and Kindred: *A Text Book of Embryology*.

Frazer: *Manual of Embryology*.

## THIRD YEAR

3. *Experimental Physiology*. This is a laboratory course in the dynamics of muscle and nerve, nervous system, circulation and respiration, digestion, excretion, secretion, etc.

Text-book:—Schafer: *Experimental Physiology*.

4. *Physiology.* The subject is treated systematically and is supplemented by demonstrations and by the work in the experimental class. Special emphasis is laid on the application of Physiology to clinical study.

Text-books:—Starling: *Human Physiology*.

Howell: *Text-book of Physiology*.

MacLeod: *Physiology and Biochemistry in Modern Medicine*.

5. *Histology.* The class meets in small sections for review, and tutorial instruction is given in special methods of microscopic technique.

#### OPTIONAL COURSES

6. *Research in Physiology.* Properly qualified students are admitted to the laboratory for post-graduate study and special research.

#### BOOKS OF REFERENCE

Howell, Starling, Schafer, Luciani, Bayliss; Evans: *Recent Advances in Physiology*. Quain: *Microscopic Anatomy*. Schafer: *The Endocrine Organs*. Cannon: *Mechanical Factors of Digestion*. Pavlov: *Work of the Digestive Glands*. Sherrington: *Integrative Action of the Nervous System*. Wright: *Applied Physiology*. Quain: *Embryology*. Vincent: *Internal Secretions and the Ductless Glands*. Lillie: *Development of the Chick*. Bailey and Miller: *Text-book of Embryology*. McMurrich: *Development of the Human Body*. Keith: *Human Embryology and Morphology*. Kellicott: *Elements of Chordate Development*. Keibel and Mall: *Embryology*. Gray's *Anatomy, Section on Embryology*. Patten: *Development of the Chick*. Marshall: *Physiology of Reproduction*.

#### POLITICAL AND ECONOMIC SCIENCE

Associate Professor—N. McL. ROGERS, M.A., B.Litt., B.C.L.

#### FIRST YEAR

*Economics 2. Introduction to Politics.*

An approach to the study of the state, its nature, activities, and international relations, and a comparative study of governments, particularly those of Great Britain, the United States and the British Dominions.

Assigned Texts:

- Morris: *History of Political Ideas* (Christophers).  
Joad: *Modern Political Theory* (Oxford).  
Mill, *Representative Government* (Everyman).  
Bagehot, *The English Constitution* (Kegan Paul).  
Ilbert, *Parliament* (Home University Library).  
Read: *International Law and International Relations*.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

*The Arthur R. Elliott Professor*—JOHN WYLLIE, M.A., M.B.,  
Ch.B., B.Sc.(Glasgow),  
D.P.H.(Cambridge).

Lecturer—J. S. DELAHAYE, M.D., C.M.

SIXTH YEAR

Lecture Course:

The following subjects are discussed and illustrated with lantern slides:—air and ventilation, heating and lighting, water and water supply, domestic and community sanitation, food and food infections, control of infectious disease, specific infections, industrial hygiene, insect-borne diseases, maternity and child welfare, school hygiene, venereal diseases, tuberculosis and vital statistics.

Practical Course:

Outdoor visits to Public Health Schemes are arranged during the term September to December and for this purpose the class is divided into two sections. The visits include inspection of a Model Summer Cottage, a Meteorological Station, Water Supply Schemes, Sewage Disposal Schemes, Ventilating and Heating Systems in Schools and other buildings, Factories and Workshops, a Model Dairy Farm and Pasteurizing Plants.

The expenses incurred in these visits, along with the cost of material supplied in class to each student, are deducted from the sessional deposit.

During the second term, January to April, laboratory demonstrations are given of chemical and bacteriological analyses of water and milk, methods for detection of poisons and preservatives in foods, and microscopical exhibits of parasites in meat and the chief insect vectors of disease.

BOOKS OF REFERENCE

Currie: *Text-book of Hygiene..* Fitzgerald: *Introduction to the Practice of Preventive Medicine.* Rosenau: *Preventive Medicine and Hygiene.*

## PSYCHIATRY

*Professor*—T. D. CUMBERLAND, M.B. (Toronto).

*Clinical Assistants*—C. H. McCUAIG, M.D., C.M.

C. M. CRAWFORD, B.A., M.D., C.M., F.A.C.P.

The course in Psychiatry for sixth year students consists of:—

(a) Lectures and demonstrations in psychopathology and abnormal psychology having an especial bearing upon the psychoses and psycho-neuroses. In this course an attempt will be made to demonstrate to the student the abnormalities of the various psychological functions, the constitutional reaction types, the personality deviations, and the principles of mental hygiene.

(b) Lectures and clinics outlining the symptom-complexes shown in the various forms of mental disorder. This course will be made largely clinical and will be illustrated extensively from the abundant material available in the wards of the Ontario Hospital. Special emphasis will be given to the psychiatric components of general medical and surgical diseases and to the somatic factors in the various mental disorders.

*Text-books in Psychiatry*:—

Henderson and Gillespie: *Text-book of Psychiatry*. White: *Outlines of Psychiatry*. Strecker and Ebaugh: *Practical Clinical Psychiatry*. Bleuler: *Text-book of Psychiatry*. Rosanoff: *Manual of Psychiatry*. Craig and Beaton: *Psychological Medicine*.

*Text-books in Abnormal Psychology*:—

Bridges: *Psychology, Normal and Abnormal*, 1930. Fisher: *Introduction to Abnormal Psychology*, 1929. McDougall: *Outline of Abnormal Psychology*, 1926.

## PSYCHOLOGY

*Professor*—GEORGE HUMPHREY, M.A., Ph.D.

*Lecturer* —C. M. CRAWFORD, B.A., M.D., C.M., F.A.C.P.

## SECOND YEAR

The course in Psychology for second year students consists of lectures and clinical demonstrations, the material for which is obtained from the wards of the Ontario Hospital, Kingston. An attempt is made to present the subject both from the introspectionist and behaviouristic

points of view. Such subjects are covered as: *sensation, perception, memory, attention, psychological types and intelligence*. The clinical demonstrations are held at the Ontario Hospital, and opportunity is afforded for a complete discussion of all problems raised by the cases presented. This course is in preparation of the students for a later course in psychopathology which is given in connection with the course in psychiatry.

*Text-books recommended:*

- Pillsbury: *Essentials of Psychology*, 1930 edition (Macmillan).  
J. W. Bridges: *Psychology, Normal and Abnormal*, 1929 edition.  
(Appleton).  
Woodworth: *Psychology*, 1929 ed. (Holt).  
Carr, H. A.: *Psychology* (Longmans, Green & Co. 1925).

## RADIOLOGY AND PHYSICAL THERAPY

Professor—W. A. JONES, M.D., F.R.C.P.(C.)

### FIFTH YEAR

The course in radiology is of one hour weekly in practical radiography and film reading.

One hour a week is used for classes in Physical Therapy. These classes include lectures on, and demonstrations of all the standard physical therapeutic measures.

### SIXTH YEAR

One hour each week is used for lectures in radiology and in practical film interpretation.

### BOOKS OF REFERENCE

Baetjer and Waters: Injuries and Diseases of Bones and Joints.  
McKendrick and Whittaker: An X-Ray Atlas of the Body. Carman: The Roentgen Diagnosis of Diseases of the Alimentary Canal. Braasch: Urography. Holmes and Ruggles: Roentgen Interpretation. Massey: Practical Electro Therapeutics and Diathermy. Rhinehart: Roentgenographic Technique. Russel and Russel: Ultra Violet Radiation and Actinotherapy. Kaplan: Practical Radiation Therapy.

## SURGERY

*Professor* - - - L. J. AUSTIN, M.Ch., F.R.C.S.(C.),  
F.R.C.S.

*Associate Professor*--F. ETHERINGTON, M.D., F.R.C.S.(C.)

*Associate Professor*--I. G. BOGART, M.D., F.R.C.S.(C.)

*Associate Professor*--J. F. SPARKS, B.A., M.D., F.R.C.S.(C.)

*Assistant Professor*-- S. J. KEYES, M.D., F.R.C.S.(C.)

*Assistant Professor*--N. E. BERRY, M.D.(in charge of Urology).

*Assistant Professor*--S. W. HOUSTON, M.D., F.R.C.S.(Edin.),  
F.R.C.S.(C.)

*Lecturer* - - - —D. W. BOUCHER, M.D., F.R.C.S.(Edin.).

*Fellow in Surgery*--C. D. T. MUNDELL, M.D., C.M.

### FOURTH YEAR

The student is first brought in contact with hospital cases in the fourth year.

### FIFTH YEAR

In the fifth year clinics are held at the General Hospital, Hotel Dieu and Ontario Hospital, and the work of this year is almost entirely clinical. Special instruction is also given in operative work in which the students assist in rotation and a few lectures are delivered on systematic surgery.

### SIXTH YEAR

The sixth year is devoted chiefly to clinical surgery.

Special courses are also given at the General Hospital in the use of the cystoscope and uretral catheterization by Dr. Berry and in anesthesia by Dr. Keyes.

Clinics are held at the Kingston General Hospital, Rockwood Hospital and Hotel Dieu. In addition every possible opportunity is afforded the student throughout the session to attend operations performed by the members of the staff at the different hospitals, a limited number of the students being permitted to view the operation from the floor.

#### *Operative Surgery.*

A special class in Operative Surgery is held for 10 weeks during the final year. Amputations and such other operations as may be demonstrated on the cadaver are performed by the students in rotation.

### APPROVED TEXT-BOOKS

Rose and Carless, Thompson and Miles. Whitman: *Orthopedic Surgery*. Pye: *Surgical Handicraft*. Wilson and Cochrane: *Fractures*. Horsley: *Operative Surgery*. Choyce: *System of Surgery*. Bickham: *Surgery* (6 vols.), Nelson's *Surgery*. Lewis: *Practice of Surgery*. Walton: *Surgical Diagnosis*. *Surgical Clinics of North America*. Graham: *Surgical Diagnosis*. Campbell: *Orthopedic Surgery*. Kirschner: *Operative*; Da Costa: *Modern Surgery*. Mock, Pemberton and Coulter: *Therapy*.

## DEGREES CONFERRED

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### DEGREES CONFERRED AT THE ANNUAL CONVOCATION, MAY, 1933

Frederick Archibald Alexander,	Vernon Clarence Malowney
B.A.	Duncan Thomas Richards McColl
Clarence Benton	Wilfrid Lorne Joslin McDonald
Ben Brachman, B.A.	John Joseph McGuire
Harold Edward Bulford	Harrison Lloyd McLaughlin
Howard Wesley Carter	Alexander Denholme Milligan
George Wellington Davis	Tuffield John Morin
Purvis Walter Earle	William Ralph Muirhead
Morton Booth George	John Alexander Percival
Gordon Robert Gray	Joseph Charles Pinch
John Paul Harvey	Duncan Stewart Pugh
Jerome Joseph Hergott	William McCrimmon Purvis
Maurice Hershey	William Coulter Rennick
John Wesley Hiltz	Samuel Robinson
Roland Dennis Howatt	Samuel Shenkman
George Gerard Hunt	Dennis Maxwell Smith
Robert Johnston	James Herbert Smith
Athol Stewart Kenney	Douglas Benson Summers
Francis Archibald Kinnaird	Benjamin Raymond Susman, B.A.
Edward Alan Larkin	William Taylor
William Sulo Lehto	Clifford Vernon Tisdale
John Elmer Lewis	William Ross Wesley
Arnold Kent Mainse	Allen George Wilby

### DEGREES CONFERRED IN THE FALL OF 1933

Bernice Ward Casselman
Douglas Stewart Forster
Wallace McCouan

## MEDALISTS AND HOLDERS OF SCHOLARSHIPS AND PRIZES

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### MEDALISTS IN MEDICINE

1930 Jos. A. Kearns	1931 John T. Tweddell
1932 Eldon M. Boyd	1933 Robert Johnston

### MEDALISTS IN SURGERY

1930 W. Scotte Elliott	1931 Michael W. C. Feeney
1932 Kenneth A. Roberts	1933 Samuel Robinson

### THE N. F. DUPUIS SCHOLARSHIP

1930 Robert Johnston and Clifford V. Tisdale	1932 Harold Frank
1931 Perry E. White	1933 James B. Roberts

### THE NEW YORK ALUMNI ASSOCIATION SCHOLARSHIP

1930 Perry E. White	1931 Harold Frank
1932 James B. Roberts	1933 Garnet W. Zealand

### THE DEAN FOWLER SCHOLARSHIP

1930 Eldon M. Boyd, M.A.	1931 Robert Johnston
1932 Neil E. Morrison	1933 Frederick H. Bonnell

### THE ROBERT BRUCE SCHOLARSHIP

1930 Albert P. Asselstine	1931 James B. Roberts
1932 Edward D. Rooke	1933 Clifford G. Campbell

### THE DAVID EDWARD MUNDELL PRIZE

1930 John E. Plunkett	1931 James D. Allen
1932 Kenneth A. Roberts	1933 Robert Johnston

### FACULTY SCHOLARSHIPS

1930 Philip Bernstein and John T. Tweddell.	
1931 Charles E. Conners and Hugo T. Ewart (equal), and Kenneth A. Roberts.	
1932 Thomas N. Tweddell and Robert Johnston.	
1933 Thomas C. Wilson and Wing Y. Wong.	

### CANADIAN NATIONAL COMMITTEE FOR MENTAL HYGIENE PRIZE

1930 John E. Plunkett	
1931 Clarence A. Buck	
1932 K. A. Roberts	
1933 Robert Johnston	

THE BOAK SCHOLARSHIP

1930 William M. Purvis  
1931 Wing Y. Wong  
1932 Harold Frank  
1933 James B. Roberts

DR. M. JAMES' PRIZE

1930 Jos. A. Kearns                    1931 John T. Tweddell  
1932 E. M. Boyd                        1933 Robert Johnston

ONTARIO MEDICAL ASSOCIATION PRIZE IN PREVENTIVE MEDICINE

1932 J. B. Ewing                        1933 Morton B. George

PROFESSOR'S PRIZE IN MEDICINE AND CLINICAL MEDICINE

1930 Karl A. Kraft                     1931 James D. Allen  
1932 K. A. Roberts                     1933 Benjamin R. Susman, B.A.

PROFESSOR'S PRIZE FOR THE BEST SERIES OF PATHOLOGICAL CASES

1930 Murton R. Shaver, B.A.        1931 John T. Tweddell  
1932 E. M. Boyd                        1933 Douglas B. Summers and  
    Robert Johnston, equal

THE D. T. SMITH PRIZE IN PHARMACOLOGY

1930 Eldon M. Boyd, M.A             1931 Robert Johnston  
1932 Philip Bernstein                 1933 Cecil H. Wilson

PROFESSOR'S PRIZE IN SURGERY AND CLINICAL SURGERY

1930 Wm. S. Millman                    1931 John T. Tweddell  
1932 R. C. Burr                        1933 Robert Johnston

PROFESSOR'S PRIZE IN PREVENTIVE MEDICINE

1931 M. W. C. Feeney                 1932 L. R. LeFave  
1933 Benjamin R. Susman, B.A.

STUDENTS IN ATTENDANCE  
SESSION 1933-1934

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SIXTH YEAR

Benjamin J. Alperin .....	Brooklyn, N.Y.
John J. E. Baker .....	Gananoque
Louis Baker .....	Winnipeg, Man.
Henry E. D. Bateman .....	Parham
Philip Bernstein .....	Cochrane
Victor Cecilioni .....	Hamilton
Arthur P. C. Clark .....	Kingston
Robert W. M. Clark .....	Niagara Falls Ont.
William T. Clark .....	Vancouver, B.C.
Arthur S. Crummey .....	Western Bay, Nfld.
Colmer B. Davis .....	Kingston
Frederick W. Eggert .....	Killaloe
Frederick G. Elliott .....	Prescott
Charles F. Galway .....	Belleville
Albert M. Glover .....	Kingston
Jack E. Gorman .....	Hamilton
Foster J. Hamilton .....	Port Hope
William A. Hargrove .....	Toronto
James S. Hazen .....	Hamilton
Joseph D. Herman .....	Victoria, B.C.
Joseph E. Josephson .....	Toronto
Lionel E. Limoges .....	North Bay
James G. McBroom .....	Washburn
Cyril H. McGowan .....	Cobalt
John E. McIntosh .....	Williamsburg
William N. McKee .....	Kingston
Malcolm H. McKinnon .....	Antigonish, N.S.
Norman I. McLeod .....	Kingston
Donald I. Matheson .....	Kingston
Harold F. B. Miller .....	Huntingdon, Que.
Neil E. Morrison .....	Greenwood, B.C.
Robert R. Mutrie .....	Guelph
Thomas E. Nugent .....	St. John, N.B.
Maurice J. O'Connor .....	Kingston
Robert E. Ralph .....	Hamilton

Leonard A. Remus .....	Pembroke
Ernest A. Sanders .....	Kingston
William R. Slack .....	Smith's Falls
Robert A. Stewart .....	Hamilton
Thomas G. Stoddart .....	Ottawa
Reginald E. Taft .....	Kingston
Henry J. Tweddell .....	Kingston
Perry E. White .....	Kingston
George F. Wilcock .....	Montreal, Que.
Wing Y. Wong .....	Vancouver, B.C.

FIFTH YEAR

Robert E. C. Anderson .....	Ashton
Albert P. Asselstine .....	Fernie, B.C.
Michael B. Atamian .....	Hamilton
James H. Bateman .....	Thomasburg
Donald C. Bews .....	Kingston
Frederick H. Bonnell .....	Victoria, B.C.
Joseph E. Boucher .....	North Chelmsford, Mass.
John V. Byrne .....	Perth
Nicholas M. Comodo .....	Hartford, Conn.
Charles E. Conners .....	Carleton Place
Osler B. Dickinson .....	Port Hope
Antoine J. Dubreuil .....	Berlin, N.H.
George R. F. Elliot .....	Corbin, B.C.
Hugo T. Ewart, B.A. ....	Petrolia
John C. Finley .....	Meaford
Harold Frank .....	Montreal, Que.
Wm. E. Glass .....	Hamilton
John H. Hamlin .....	Toronto
Edwin G. Johnston .....	Lansdowne
James A. Kidd .....	London
Charles H. Leavens .....	Kingston
John S. Ledwell .....	Charlottetown, P.E.I.
Horace A. C. Leigh .....	Kingston
George H. Lewis .....	Ottawa
Clair J. Locke .....	Brinston
Allen G. Minnes .....	Kingston
John B. McCarthy .....	Kingston
Paul J. Miranti .....	Jersey City, N.J.
Amer H. Moore .....	North Bay
H. Harold Moore .....	Brooklyn, N.Y.
Ronald B. Murray .....	Owen Sound
John V. Nelles .....	Hamilton

Mervyn G. Peever .....	Renfrew
J. Harold G. Preston .....	Ottawa
Everett F. Raynor .....	Victoria, B.C.
Thomas C. Robinson .....	Brockville
Raymond F. Ross .....	Belleville
John L. Shappert .....	Goodeve, Sask.
Henry R. Ruttan .....	Brentwood Bay, B.C.
William Stewart .....	Brockville
William I. Taylor .....	Lindsay
Donald W. A. Templeton .....	Sault Ste. Marie
Cyril G. Teskey .....	Sarnia
Michael Tuchtie .....	Hamilton
Gerald C. Walker .....	Kingston
Peter Wenger .....	Fort William
Cecil H. Wilson .....	Godfrey
William J. Yarmey .....	Canora, Sask.

FOURTH YEAR

James B. Arthurs .....	Parry Sound
John E. Bedard .....	Gananoque
Gavin W. Blenkinsop .....	Truro, N.S.
Sidney Brownstone .....	Plum Coulee, Man.
Clive B. Caswell .....	Wolfe Island
Leonard E. Cohen .....	Perth
Colin S. Dafoe .....	Madoc
John S. Davies .....	Willowdale
Francis R. Donnelly .....	Stanleyville
Frank E. Earle .....	Prescott
John L. Etherington .....	Hamilton
Keith C. Falkner .....	Ogdensburg, N.Y.
Anton Forsberg .....	Temiskaming, Que.
Charles Galloway .....	Woodville
Benjamin Gencher .....	Ottawa
Emanuel Gherman .....	Kingston
John G. Goodfellow .....	Superior, Wisc.
Gerald H. Graham .....	Sherbrooke, N.S.
Leigh S. Greenfield .....	Fairport, N.Y.
Eldon T. Green .....	Kingston
Harry T. Hogan .....	Saskatoon, Sask.
Richard C. Hughes .....	Brockville
Leslie S. Jolliffe .....	Kingston
Israel Levitsky .....	Limerick, Sask.
John A. M. McCue .....	Smith's Falls
William C. McIntosh .....	Smith's Falls

John F. McNichol .....	Ottawa
Geo. M. Malone .....	Regina, Sask.
William E. Millard .....	Kingston
Ralph G. Miller .....	Port Arthur
John G. Murphy .....	Fort William
Fergus J. O'Connor .....	Kingston
Richard R. Patterson .....	Kingston
Nelson Perea .....	Mayagüez, Puerto Rico
James B. Roberts .....	Lanark
Kenneth H. Running .....	Smith's Falls
Charles H. Shaver .....	Chatham
Irwin Sugarman .....	Kingston
Albert E. Thoms .....	Arnprior
Thomas N. Tweddell .....	Kingston
Lindsay O. Watt .....	Ottawa
Stephen A. Yaffe .....	Hamilton
Allen C. Young .....	Grimsby Beach
Joseph E. Zbar .....	Kingston

THIRD YEAR

Charles J. Austin .....	Fernie, B.C.
Donald McK. F. Biehn .....	Parry Sound, Ont.
Murray R. Bowie .....	Ottawa
George D. Caldbick .....	Haileybury, Ont.
John R. Card .....	Guelph, Ont.
Gordon C. Caughey .....	Ameliasburg, Ont.
Frank S. Clarke .....	Kirkland Lake, Ont.
Clair J. Countryman .....	Belleville
John E. Dalton .....	Ottawa, Ont.
Joseph S. Delaney .....	Prescott, Ont.
Lorne C. Dickson .....	Ottawa, Ont.
Robert J. Dooley .....	Ottawa, Ont.
Walter J. Elliot .....	Corbin, B.C.
H. David Freeman .....	Kingston, Ont.
James S. Goodbrand .....	Hamilton, Ont.
Marshall M. Gowland .....	Milton West, Ont.
Edward Kahn .....	Kingston, Ont.
Robert G. Laidlaw .....	Ottawa, Ont.
Reginald R. Laird .....	Penticton, B.C.
W. M. Stuart Lauder .....	Vancouver, B.C.
M. Earle MacDonald .....	Point Anne, Ont.
Geo. W. E. MacPherson .....	Carleton Place
Ross M. McCullough .....	Kingston, Ont.
John W. McDougall .....	Brockville, Ont.

Michael G. McGuire .....	Smith's Falls
Macdonald McKee .....	Kingston, Ont.
John P. McManus .....	Bronx, New York
Charles R. Marcellus .....	Iroquois, Ont.
John H. Maurer .....	Jersey City, N.J.
Borden C. Miller .....	Kingston
Harry V. Morris .....	Trinity, Nfld.
Arthur B. Murphy .....	Smith's Falls, Ont.
Eric T. Mutrie .....	Guelph, Ont.
R. Lloyd Nesbitt .....	Kingston, Ont.
William C. Powell .....	Elgin, Ont.
Joseph A. Quigley .....	Kingston, Ont.
Blake M. Reive .....	Welland, Ont.
Clifford R. Richmond .....	Hamilton, Ont.
John E. Roddick .....	Lyndhurst
Homer C. Rogers .....	Odessa
Edward D. Rooke .....	Kingston, Ont.
Jas. H. Shaw .....	Charlottetown, P.E.I.
Herbert G. Smith .....	Ottawa, Ont.
Felix Stein .....	Brooklyn, N.Y.
Herbert L. Stevenson .....	Kent Bridge, Ont.
Melville Swartz .....	Fort William, Ont.
Thomas C. Wilson .....	Iroquois Falls, Ont.
Garnet W. Zealand .....	Lindsay, Ont.

SECOND YEAR

William E. Allison .....	Camden, N.Y.
Harry L. Alpert .....	Syracuse, N.Y.
Roger M. Billings .....	Cayuga
Shirley E. Bishop .....	Kentville, N.S.
William G. Breckenridge .....	Peterboro
George M. Brown .....	Kingston
Claude F. Cahill .....	Moncton, N.B.
Colin A. Campbell .....	St. Thomas
Clifford G. Campbell .....	Owen Sound
William E. Collins .....	Beachburg
Harold W. N. Couran .....	Chapel's Cove, Nfld.
Robt. B. Copeland .....	Lindsay
Vincent A. Corrigan .....	Kingston
Jack S. Crawford .....	Hamilton
George W. Currie .....	Picton
Fred A. Dawson .....	Sault Ste. Marie
Maurice C. Dinberg .....	Ogdensburg N.Y.
Allan R. Doane .....	Iroquois

Thomas J. Elliott .....	Galahad, Alberta
Horace B. Ellsworth .....	Port Arthur
William J. Ewen .....	Montego Bay, Jamaica, B.W.I.
Clifford W. Forsyth .....	Ottawa
Joseph Giardina .....	Niagara Falls
John J. Gibson .....	Penticton, B.C.
Lawrence M. Gibson .....	Kingston
Roland C. V. Gray .....	New Westminster, B.C.
Vincent O. Hart .....	Napanee
Edwy J. Howard .....	Deseronto
Ernest A. Johnson .....	Smith's Falls
Richard A. Kelly .....	Delta
Harry V. Kroll .....	Montreal Que.
Jacob Kussner .....	Cochrane
Harold D. Latham .....	Brockville
Alfred J. Legris .....	Port Arthur
John A. Macdonald .....	Kincolith, B.C.
Edward G. Mack .....	Hamilton
David S. Malen .....	Outremont, Que.
John A. McIntyre .....	Lanark
Arthur L. Magill .....	Smith's Falls
John R. E. Morden .....	Walkerville
Harry A. L. Murphy .....	Stayner
Frederick D. McDade .....	McAdam Jct., N.B.
Joseph F. A. McManus .....	Bronx, New York
Douglas H. Pollock .....	Cochrane
Herbert A. Radler .....	Montreal, Que.
Wallace A. Rupert .....	Brockville
Edward J. Ryan .....	Crystal Beach
Louis Segal .....	Lynn, Mass.
Hugh G. Skinner .....	Bashaw, Alberta
Austin E. Smith .....	Kingston
Jack D. Sprague .....	Springfield, N.S.
John Tanton .....	St. Marys
James M. Waddell .....	Parry Sound
Jack R. Webber .....	Houlton, Maine
Joseph D. Worral .....	Hamilton
Hallam G. Young .....	Seeley's Bay
James S. Young .....	Walkerville
Louis Zacks .....	Peterboro

FIRST YEAR

William Amodeo .....	Kingston
James J. Barry .....	Prescott
Robert Glen Bell .....	Cayuga

Stanley John Bociek .....	Hamilton
James Ralph Clark .....	Peterboro
Kenneth James Clark .....	Kingston
Arthur Douglas Cliff .....	Kingston
Thomas Ray Colden .....	Belleville
John Frederick Gordon Conners .....	Toronto
Matthew Thomas Cunningham .....	Kingston
Thomas George Taylor Davis .....	Gananoque
William Henry Delaney .....	Gananoque
Hume Duggan .....	St. Davids
George Herbert Emery .....	Chatham
Neil Robert Erskine .....	Monkton
Gordon Ferguson .....	Nelson, B.C.
Bernard James Arnold Foxton .....	Sydenham
Frederick Kenneth Guy .....	Kingston
Malcolm Beemer Hill .....	Waterford
Walter Howard .....	Toronto
John Arthur Irving .....	Ottawa
Eli Bolton Ives .....	Bridgeport, Conn.
Maurice Martin James .....	Kingston
Charles Hogle Jamieson .....	Hartington
John Leonard Johnston .....	Kirkland Lake
George Frederick A. Keopke .....	Pembroke
George Eugene Large .....	Toronto
Arthur Goodwin Macdonald .....	Kincolith, B.C.
Donald Cameron MacDonald .....	Ceylon, Sask.
John Macdonald .....	Hamilton
John Robert Alexander McKechnie .....	Regina, Sask.
Timothy William McParland .....	Kingston
Allan Francis McRoberts .....	North Bay
Archibald John Medley .....	Kingston
Fritz Gerhard Moench .....	Kingston
Albert Edward Murley .....	Charlottetown, P.E.I.
Rudolph Frank Ohlke .....	Kingston
Stephen Paul Pakozdy .....	Welland
Richard Thomas Potter .....	Belleville
Eric Douglas Rathbone .....	Fort William
Anthony Brendan Reid .....	Lansdowne
Lloyd George Reid .....	Westmeath
Edgar Clifford Scharf .....	Kingston
David Scott .....	Ottawa
George Ducolon Scott .....	Kingston
James Merritt Shapley .....	Toronto
Samuel Smolkin .....	Almonte
James William Stevenson .....	Kingston

Robert Bruce Sutherland .....	Freelton
Harry LeRoy Thoman .....	Hamilton
Gordon Karl Trotter .....	Collingwood
Ernest Alfred Watkinson .....	Sault Ste. Marie
Arthur Zuckerman .....	Toronto

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#### SUMMARY

Sixth Year .....	45
Fifth Year .....	48
Fourth Year .....	44
Third Year .....	48
Second Year .....	58
First Year .....	53
Total.....	296

## **UNIVERSITY PUBLICATIONS**

The following publications are issued by the University and, except where a price is mentioned, will be sent free of charge to all applicants.

**CALENDAR OF THE FACULTY OF ARTS.**

**COURSES IN COMMERCE AND ADMINISTRATION.**

**CALENDAR OF THE FACULTY OF APPLIED SCIENCE.**

**CALENDAR OF THE FACULTY OF MEDICINE.**

**CALENDAR OF QUEEN'S THEOLOGICAL COLLEGE.**

**ANNOUNCEMENT OF THE SUMMER SCHOOL.**

**REQUIREMENTS FOR MATRICULATION.**

**ILLUSTRATED PAMPHLET.**

**EXAMINATION PAPERS IN ARTS, SCIENCE AND MEDICINE.**  
(10 cents for each paper.)

**DIRECTORY OF GRADUATES IN ALL FACULTIES, January 1930,**  
25 cents.





